

GenCore version 4.5
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OW protein - protein search, using sw model

Run on: April 24, 2001, 15:31:29 ; Search time 26.96 Seconds
(without alignments)
657.660 Million cell updates/sec

Title: US-09-508-849-1

Sequence: 1 MQQPNVYPQIYWVDSAS.....SELSLVNFEEQTFGLYKL 258

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters: 198801

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR-67:*
1: pirl:*
2: pirl2:*
3: pirl3:*
4: pirl4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1389.5	98.5	281	2	I38707	Fas ligand - human
2	1075.5	76.2	279	2	A53062	Fas ligand - mouse
3	1061	75.2	278	2	A49266	Fas ligand - rat
4	211	15.0	202	1	JN0869	tumor necrosis fac
5	208	14.7	202	1	B27303	tumor necrosis fac
6	204.5	14.5	197	1	JH0309	tumor necrosis fac
7	192	13.6	232	1	S12606	tumor necrosis fac
8	190.5	13.5	204	1	S24641	lymphotoxin - bovi
9	190.5	13.5	233	1	S24642	tumor necrosis fac
10	187	13.3	205	1	QMH0X	lymphotoxin alpha
11	185	13.1	204	1	S17289	tumor necrosis fac
12	181	12.8	234	1	JQ1344	tumor necrosis fac
13	177	12.5	141	2	A34043	hypothetical proli
14	172.5	12.2	233	1	QMHUN	tumor necrosis fac
15	172.5	12.2	389	2	S27200	proline-rich prote
16	172	12.2	599	2	T10798	phosphorin-S - Vo
17	170.5	12.1	233	1	S22052	tumor necrosis fac
18	169.5	12.0	185	2	S52715	tumor necrosis fac
19	169.5	12.0	234	1	A25451	tumor necrosis fac
20	169.5	12.0	485	2	A33647	sulfated surfacta
21	169	12.0	234	1	JH0529	tumor necrosis fac
22	167	11.8	415	1	A34170	acrosin (EC 3.4.21
23	165.5	11.7	235	2	S15490	tumor necrosis fac
24	163.5	11.6	233	2	S11688	tumor necrosis fac
25	163.5	11.6	235	1	QMMSN	tumor necrosis fac
26	163	11.6	431	2	S47538	acrosin (EC 3.4.21
27	162	11.5	639	2	G02919	transcription fact
28	161.5	11.4	193	2	S06192	tumor necrosis fac
29	161	11.4	502	2	A55197	Wiskott-Aldrich sy

30	161	11.4	1206	2	S24407	formin isoform IV
31	161	11.4	1468	2	S11515	formin - mouse
32	159	11.3	464	2	S22697	extensin - Volvox
33	158.5	11.2	421	1	S11674	acrosin (EC 3.4.21
34	155.5	11.0	235	2	JU0029	tumor necrosis fac
35	155.5	11.0	440	2	I49681	glyceraldhyde-3-p
36	153.5	10.9	439	2	S51939	chitinase (EC 3.2.
37	153	10.8	760	2	T06291	extensin homolog T
38	152	10.8	186	2	S42442	nuclear protein EB
39	151	10.7	196	2	B48232	cysteine-rich exte
40	151	10.7	306	2	I49139	lymphotoxin-beta -
41	151	10.7	980	2	S54986	regulatory protein
42	150.5	10.7	1255	2	T31065	diaphanous protein
43	149.5	10.6	505	2	S72273	actin-depolymerizi
44	149.5	10.6	645	2	A71416	hypothetical prote
45	149.5	10.6	1171	2	T17454	diaphanous-related

ALIGNMENTS

RESULT 1
138707
Fas ligand - human

C:Species: Homo sapiens (man)
C:Date: 29-May-1998 #sequence.revision 29-May-1998 #text.change 21-Jul-2000
R:Accession: 138707; JC2340; S57565; 138554
R:Takahashi, T.; Tanaka, M.; Inazawa, J.; Abe, T.; Suda, T.; Nagata, S.
Int. Immunol. 6, 1567-1574, 1994

A:Title: Human Fas ligand: gene structure, chromosomal location and species specific:
A:Reference number: 138707; MUID:95127560
A:Accession: 138707
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA

A:Residues: 1-281 <RES>
A:Cross-references: EMBL:U11821; NID:9595430; PIDN:AC50124.1; PID:9595431
R:Mita, E.; Hayashi, N.; Ito, S.; Takehara, T.; Hijioka, T.; Kasahara, A.; Fusamoto, Blochem. Biophys. Res. Commun. 204, 468-474, 1994

A:Title: Role of Fas ligand in apoptosis induced by hepatitis C virus infection.
A:Reference number: JC2340; MUID:95071350
A:Accession: JC2340
A:Molecule type: DNA

A:Residues: 1-281 <MIT>
A:Cross-references: GB:D38122; DDBJ:D29820; NID:9601892; PIDN:BA07320.1; PID:q136990
R:Schatzlein, C.E.
Submitted to the EMBL Data Library, June 1995

A:Reference number: S57565
A:Accession: S57565
A:Status: preliminary
A:Molecule type: mRNA

A:Residues: 1-281 <SCH>
A:Cross-references: EMBL:X89102; NID:9887455; PID:9887456
R:Alderson, M.R.; Tough, T.W.; Davys-Smith, T.; Braddy, S.; Falk, B.; Schooley, K.A.; J. Exp. Med. 181, 71-77, 1995

A:Title: Fas ligand mediates activation-induced cell death in human T lymphocytes.
A:Reference number: 138554; MUID:95105731
A:Accession: 138554
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA

A:Residues: 1-281 <REZ>
A:Cross-references: EMBL:U08137; NID:9624627; PIDN:AC50071.1; PID:9624628
C:Genetics:
A:Gene: FasL
A:Introns: 151/1; 116/3
C:Keywords: glycoprotein; transmembrane protein
F:80-102/Domain: transmembrane #status predicted <TM>
F:76,184,250,260/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 98.5%; Score 1389.5; DB 2; Length 281;
Best Local Similarity 91.8%; Pred. No. 2.3e-94;
Matches 258; Conservative 0; Mismatches 0; Indels 23; Gaps 1;

QY 1 MOOPFNYPPQIYWDSSASSPWAPPGIVLPCTSVPRRRGRRPPPPPPPPPPPP 60
 DB 1 MOOPFNYPPQIYWDSSASSPWAPPGIVLPCTSVPRRRGRRPPPPPPPPPPPP 60
 QY 61 PPLPPLPPLPKKRGNSHSGICLLVMFVAVLALVGLGMDLQELAELEALRESTSQ 110
 DB 61 PPLPPLPPLPKKRGNSHSGICLLVMFVAVLALVGLGMDLQELAELEALRESTSQ 120
 QY 111 -----PSPPEKKELRKVAHLTGKSNRSMPLEMDTYGIYLLSGVYKKG 157
 DB 121 MHVASSLEKQIGHSPPEKKELRKVAHLTGKSNRSMPLEMDTYGIYLLSGVYKKG 180
 QY 158 LVYNETGLFYVSKYFRGSCNNPLPSHKYVRNSKYPQDLYVMGKMMSTCTTGOMA 217
 DB 181 LVYNETGLFYVSKYFRGSCNNPLPSHKYVRNSKYPQDLYVMGKMMSTCTTGOMA 240
 QY 218 RSSYLGAVFNLTSADHLVYNVSELVNFEEESQTFGLYKL 258
 DB 241 RSSYLGAVFNLTSADHLVYNVSELVNFEEESQTFGLYKL 281

RESULT 2

Fas ligand - mouse
 A:Accession: A53062

C:Species: Mus musculus (house mouse)
 C:Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 05-Nov-1999
 C:Accession: A53062

R:Takehashi, T.; Tanaka, M.; Brannan, C.I.; Jenkins, N.A.; Copeland, N.G.; Suda, T.; Nag
 Cell 76, 969-976, 1994

A:Title: Generalized lymphoproliferative disease in mice, caused by a point mutation in
 A:Reference number: A53062; M0ID:94185175

A:Accession: A53062

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-279 <TAK>

A:Cross-references: GB:006948; NID:9473564; PIDN:AAAI7800.1; PID:9473565

Query Match

Best Local Similarity 76.2%; Score 1075.5; DB 2; Length 279;
 Matches 204; Conservative 23; Mismatches 28; Indels 27; Gaps 4;

QY 1 MOOPFNYPPQIYWDSSASSPWAPPGIVLPCTSVPRRRGRRPPPPPPPPPPPP 59
 DB 1 MOOPFNYPPQIYWDSSASSPWAPPGIVLPCTSVPRRRGRRPPPPPPPPPPPP 60
 QY 60 PPLPPLPPLPKKRGNSHSGICLLVMFVAVLALVGLGMDLQELAELEALRESTSQ 110
 DB 61 PPLPPLPPLPKKRGNSHSGICLLVMFVAVLALVGLGMDLQELAELEALRESTSQ 117
 QY 111 -----PSPPEKKELRKVAHLTGKSNRSMPLEMDTYGIYLLSGVYKKG 156
 DB 118 OSILKVSFEKQIANTSTPSPEKKELRKVAHLTGKSNRSMPLEMDTYGIYLLSGVYKKG 177
 QY 157 GLVYNETGLFYVSKYFRGSCNNPLPSHKYVRNSKYPQDLYVMGKMMSTCTTGOMA 216
 DB 178 GLVYNETGLFYVSKYFRGSCNNPLPSHKYVRNSKYPQDLYVMGKMMSTCTTGOMA 237
 QY 217 ARSSYLGAVFNLTSADHLVYNVSELVNFEEESQTFGLYKL 258
 DB 238 ARSSYLGAVFNLTSADHLVYNVSELVNFEEESQTFGLYKL 279

RESULT 3

fas ligand - rat
 A:Accession: A49266

C:Species: Rattus norvegicus (Norway rat)
 C:Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 05-Nov-1999

C:Accession: A49266

R:Takehashi, T.; Golstein, P.; Nagata, S.
 Cell 75, 1169-1178, 1993

A:Title: Molecular cloning and expression of the fas ligand, a novel member of the tumor

A:Reference number: A49266; M0ID:94084792

A:Accession: A49266
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-278 <SUD>
 A:Cross-references: GB:003470; NID:9440178; PIDN:AAC52129.1; PID:9440179
 C:Keywords: glycoprotein; transmembrane protein

Query Match

Best Local Similarity 75.2%; Score 1061; DB 2; Length 278;
 Matches 203; Conservative 19; Mismatches 32; Indels 28; Gaps 4;

QY 1 MOOPFNYPPQIYWDSSASSPWAPPGIVLPCTSVPRRRGRRPPPPPPPPPPPP 59
 DB 1 MOOPFNYPPQIYWDSSASSPWAPPGIVLPCTSVPRRRGRRPPPPPPPPPPPP 60
 QY 60 PPLPPLPPLPKKRGNSHSGICLLVMFVAVLALVGLGMDLQELAELEALRESTSQ 110
 DB 61 PPLPPLPPLPKKRGNSHSGICLLVMFVAVLALVGLGMDLQELAELEALRESTSQ 116
 QY 111 -----PSPPEKKELRKVAHLTGKSNRSMPLEMDTYGIYLLSGVYKKG 156
 DB 117 HSRLVSSFEKQIANTSTPSPEKKELRKVAHLTGKSNRSMPLEMDTYGIYLLSGVYKKG 176
 QY 157 GLVYNETGLFYVSKYFRGSCNNPLPSHKYVRNSKYPQDLYVMGKMMSTCTTGOMA 216
 DB 177 GLVYNETGLFYVSKYFRGSCNNPLPSHKYVRNSKYPQDLYVMGKMMSTCTTGOMA 236
 QY 217 ARSSYLGAVFNLTSADHLVYNVSELVNFEEESQTFGLYKL 258
 DB 237 ARSSYLGAVFNLTSADHLVYNVSELVNFEEESQTFGLYKL 278

RESULT 4

tumor necrosis factor beta - rat
 JN0869

C:Species: Rattus norvegicus (Norway rat)
 C:Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999

C:Accession: JN0869

R:Kwon, J.; Chung, I.Y.; Benveniste, E.N.
 Gene 132, 227-236, 1993

A:Title: Cloning and sequence analysis of the rat tumor necrosis factor-encoding gene

A:Reference number: JN0869; M0ID:94040766

A:Accession: JN0869

A:Molecule type: DNA

A:Residues: 1-202 <KMO>

A:Cross-references: GB:000981; NID:9205253; PIDN:AAI16276.1; PID:9205255

A:Note: the authors translated codon CTC for residue 172 as Ile

C:Comment: This protein is structurally related pleiotropic cytokinase with overlap

C:Keywords: TNF-beta

A:Gene: TNF-beta

A:Introns: 32/3; 66/1

C:Superfamily: tumor necrosis factor

C:Keywords: tumor

Query Match

Best Local Similarity 15.0%; Score 211; DB 1; Length 202;
 Matches 58; Conservative 31.7%; Pred. No. 1.2e-08; Mismatches 81; Indels 14; Gaps 3;

QY 90 VLVALVGLGMDLQELAELEALRESTSQ 110
 DB 20 LGLLALPLDPLGAGQGLGVFSSASRTAHOPLKHLTGKLAHLVGYPSKONSILMRAN 79
 QY 142 TYGIVLLSGVYKKGGLVYNETGLFYVSKYFRGSCNNPLPSHKYVRNSKYPQDLYVMGKMMSTCTTGOMA 216
 DB 80 TDRALRHGFSGLNNNSLLIPTSGLYFVYQVVFSSGSPRALTPRTIYLAHEVQLFSSQ 139
 QY 196 PODLYVMGKMMSTCTTGOMARRSYLGAVFNLTSADHLVYNVSELVNFEEESQTFGLYKL 255
 DB 140 PFLVPLPLPKKRGNSHSGICLLVMFVAVLALVGLGMDLQELAELEALRESTSQ 120

Db 200 Feb 202

RESULT 5

B27303 tumor necrosis factor beta precursor - mouse

N:Alternate names: lymphotoxin; TNF beta

C:Species: Mus musculus (house mouse)

C>Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 24-Sep-1999

C:Accession: B27303; S01342; S10083; I56004; I48853; I55980

R:Semom, D.; Kawashima, E.; Jongeneel, C.V.; Shakhov, A.N.; Nedospasov, S.A.

Nucleic Acids Res. 15, 9083-9084, 1987

A:Title: Nucleotide sequence of the murine TNF locus, including the TNF-alpha (tumor necrosis factor) gene

A:Reference number: A93679; MUID:88067722

A:Accession: B27303

A:Molecule type: DNA

A:Residues: 1-202 <SEM>

A:Cross-references: GB:Y00467; NID:954830; PIDN:CAA68529.1; PID:954831

Nucleic Acids Res. 14, 7713-7725, 1986

A:Title: The genes for tumor necrosis factor (TNF-alpha) and lymphotoxin (TNF-beta) are

A:Reference number: S01342; MUID:87040736

A:Accession: S01342

A:Molecule type: DNA

A:Residues: 1-11; 139-160; 'CG', 163-178 <NED>

A:Cross-references: EMBL:X06217

A:Reference number: S10083

A:Accession: S10083

A:Molecule type: mRNA

A:Residues: 6-202 <MEI>

A:Cross-references: EMBL:X14800; NID:954833; PIDN:CAA32906.1; PID:9736269

R:Gardner, S.M.; Mock, B.A.; Hlilgers, J.; Huppi, K.E.; Roeder, W.D.

J. Immunol. 139, 476-483, 1987

A:Title: Mouse lymphotoxin and tumor necrosis factor: structural analysis of the cloned

A:Reference number: I56004; MUID:87252204

A:Accession: I56004

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: DNA

A:Residues: 1-25; 'P', 27-202 <RES>

A:Cross-references: GB:M17015; NID:9198880; PIDN:AAA39450.1; PID:9387407

R:Gray, P.W.; Chen, E.; Li, C.B.; Tang, W.L.; Ruddle, N.

Nucleic Acids Res. 15, 3937, 1987

A:Title: The murine tumor necrosis factor-beta (lymphotoxin) gene sequence.

A:Reference number: I48853; MUID:87231097

A:Accession: I48853

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: DNA

A:Residues: 1-202 <RE2>

A:Cross-references: EMBL:Y00137; NID:954842; PIDN:CAA68330.1; PID:954843

R:Li, C.

J. Immunol. 138, 4496-4501, 1987

A:Title: Cloning and expression of murine lymphotoxin cDNA.

A:Reference number: I55980; MUID:87224127

A:Accession: I55980

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: mRNA

A:Residues: 1-202 <RE3>

A:Cross-references: GB:M16819; NID:9202088; PIDN:AAA40460.1; PID:9202089

C:Comment: The first intron occurs in the 5'-untranslated region.

C:Genetics:

A:Gene: Tnf-beta

A:Map position: 17

A:Introns: 32/3; 66/1

C:Superfamily: tumor necrosis factor

C:Keywords: cytokine; cytotoxin; glycoprotein; lymphokine; macrophage

Query Match 14.7%; Score 208; DB 1; Length 202;
Best Local Similarity 31.7%; Pred. No. 1.9e-08;

Matches 58; Conservative 29; Mismatches 82; Indels 14; Gaps 3;

OY 90 VLVAVGLGFMFOL-----FHQKPPPEPK-----ELKRAHLTGKSNMFLMED 141

Db 20 ILGLLLALPLGAQGLSGVRSAPRAHPLPKHLTHGLIKPAHLVGPSSKONSLMRS 79

OY 142 TYGIYLLSGVKYKKGGVYINFTGLFYVSKYVFRGOSCN-----NLPLSHVYRNKY 195

Db 80 TDRALRHGFSLSNNSLIPITGSLFYVSOVFSGSCSPRAIPPIYLAHEVOLFFSOY 139

OY 196 PDLYMMEGKMSYCTTGOMARSSYLGAVFNLTSADHLVYVSELVLNFEESQTFPGL 255

Db 140 PPHVPLLSAQSKSVYDGLGQPVWRSMYQGAVFLLSGDQSTHTDGIHSHFSPSVFPGA 199

OY 256 YKL 258

Db 200 Feb 202

RESULT 6

JH0309

tumor necrosis factor beta precursor - rabbit

N:Alternate names: lymphotoxin; TNF beta

C:Species: Oryctolagus cuniculus (domestic rabbit)

C>Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999

C:Accession: JH0309; PN0098

R:Shakhov, A.N.; Kuprash, D.V.; Azizov, M.M.; Jongeneel, C.V.; Nedospasov, S.A.

Gene 95, 215-221, 1990

A:Title: Structural analysis of the rabbit TNF locus, containing the genes encoding T

A:Reference number: JH0309; MUID:91065534

A:Accession: JH0309

A:Molecule type: DNA

A:Residues: 1-197 <SH>

A:Cross-references: GB:M60340; GB:M35326; NID:9165754; PIDN:AAA31483.1; PID:9165755;

R:Shakhov, A.N.; Kuprash, D.V.; Turetskaya, R.L.; Azizov, M.M.; Andreyeva, A.V.; Nedo

Mol. Biol. (Mosk.) 23, 1743-1750, 1989

A:Title: Cloning and structural analysis of the genes, coding for rabbit tumor necro

A:Reference number: PN0098; MUID:90220566

A:Accession: PN0098

A:Molecule type: mRNA

A:Residues: 1-197 <SHA>

A:Cross-references: GB:X55745; NID:9297167; PIDN:CAA39275.1; PID:9297168

C:Genetics:

A:Introns: 25/3; 61/1

C:Superfamily: tumor necrosis factor

C:Keywords: cytokine; cytotoxin; glycoprotein; lymphokine; macrophage

F:1-26/Domain: signal sequence #status predicted <SIG>

F:27-197/Product: lymphotoxin #status predicted <MAT>

Query Match 14.5%; Score 204.5; DB 1; Length 197;

Best Local Similarity 27.3%; Pred. No. 3.3e-08;

Matches 66; Conservative 28; Mismatches 93; Indels 55; Gaps 7;

OY 25 PGTVLPCTSVRRRGGRRPPPPPPPLPLPLPLKRGHSGGLCL 84

Db 3 PPGRLX-----LPRLGLLAPPPGAGLPPRAEPSSAARAQORLQKHGHST----- 52

OY 85 VMEFVVALVGLGLGMFOLFHQKPPPEPKELRYVAHLTGKSNRSMPLME-DTY 143

Db 53 -----LKPAAHLVGPSSAD-SLRRAATD 76

OY 144 GIVLLSGVYKKGGVYINFTGLFYVSKYVFRGOSCN-----NLPLSHVYRNKY 195

Db 77 RAFLRHGFSLSNNSLIPITGSLFYVSOVFSGSCSPRAIPPIYLAHEVOLFFSOY 136

OY 198 DLVMEGKMSYCTTGOMARSSYLGAVFNLTSADHLVYVSELVLNFEESQTFPGL 256

Db 137 HVPPLLSAQ-KSVCPGPPQGPWRSMYQGAVFLLSGDQSTHTDGIHSHFSPSVFPGA 199

OY 257 KL 258

Db 196 AL 197

A:Residues: 1-59, 'N', 61-205 <KOB>
A:Cross-references: GB:D00102; NID:g219913; PIDN:BA00064.1; PID:g219914
A:Note: the authors translated the codon TAT for residue 156 as Thr and ACC for resid
R:Fukuda, S.; Ando, S.; Sanou, O.; Taniat, M.; Fujii, M.; Masaki, N.; Nakamura, K.I.;
Lymphokine Res. 7, 175-185, 1988
A:Title: Simultaneous production of natural human tumor necrosis factor-alpha, -beta
A:Reference number: A61478; MUID:88301617
A:Accession: A61478
A:Molecule type: protein
A:Residues: 56-79;86-95, 'X', 97, 'X', 99, 119-151, 'XX', 154-162, 'X', 164, 'X', 166, 'X', 168, 'X'
R:Voigt, C. G.; Maurer-Fogy, I.; Adolf, G. R.
FEBS Lett. 314, 85-88, 1992
A:Title: Natural human tumor necrosis factor beta (lymphotoxin). Variable O-glycosyla
A:Reference number: S26951; MUID:93083656
A:Accession: S26951
A:Molecule type: protein
A:Residues: 35-59, 'N', 61-205 <VOI>
A:Note: 60-Thr was also found
R:Fukushima, K.; Watanabe, H.; Takeo, K.; Nomura, M.; Asahi, T.; Yamashita, K.
Arch. Biochem. Biophys. 304, 144-153, 1993
A:Title: N-linked sugar chain structure of recombinant human lymphotoxin produced by
A:Reference number: S34742; MUID:93311995
A:Accession: S34742
A:Contents: annotation
C:Comment: Secreted from mitogen-activated lymphocytes within 1-2 days after induction
while having no detrimental effect on normal cells. It can also act synergistically
C:Comment: This protein and TNF-alpha (tumor necrosis factor) are the products of different
local activities but are produced by different cell types and have different induction
C:Genetics:
A:Gene: GDB:ITN: LT: TNFR
A:Cross-references: GDB:120442; OMIM:153440
A:Map position: 6p21.3-6p21.3
A:Introns: 33/3; 69/1
A:Note: the first intron occurs before the initiator codon
C:Superfamily: tumor necrosis factor
C:Keywords: cytokine; cytotoxin; glycoprotein; homotrimer; lymphokine; macrophage
E:1-34/Domain: signal sequence #status predicted <SIG>
E:35-205/Product: lymphotoxin #status predicted <MAT>
F:41/Binding site: carbohydrate (Thr) (covalent) (partial) #status experimental
F:96/Binding site: carbohydrate (Asn) (covalent) #status experimental

A:Molecule type: DNA
 A:Residues: 1-204 <KUH>
 A:Cross-references: EMBL:X54859; NID:g2132; PIDN:CAA38638.1; PID:g2133
 C:Genetics:
 A:Introns: 32/3; 68/1
 C:Superfamily: tumor necrosis factor
 C:Keywords: cytokine; cytotoxin; glycoprotein; lymphokine; macrophage
 F:1-33/DNA: signal sequence #status predicted <SIG>
 F:34-204/Product: tumor necrosis factor beta #status predicted <MNT>

Query Match 13.1%; Score 185; DB 1; Length 204;
 Best Local Similarity 30.6%; Pred. No. 9,1e-07;
 Matches 59; Conservative 27; Mismatches 93; Indels 14; Gaps 6;

QY 78 STGCLLVWFVFLV---VALVGLGGMQFLHLOKESPPEKKELRVVAHLTGKSNR 133
 DB 14 STPILLLGLLALPEAGLPGVGLPSPAOPAHOHPPKHLARGLTPAHLVGDPTTP 73
 QY 134 SMPLEME-DYGVIVLISGVYKKGGLVINEGLVYVSKYVFGQSC-----NNLPLSH 186
 DB 74 D-SLMRANTDAPLRHGLSLNLSLVTSGLYFSQVYSGECFPKATPTPLYLAH 132
 QY 187 KYVMNRKTPQDLVMEGKMSYCTTGQ--MMARSTLGAENVLTSADHLVNVSESLVN 245
 DB 133 EVQLFSSQYPFVHVPPLLSAQ-KSVCPGPGPVMVRSYGVAVFLITGDDQLSTHTDTPHLL 191
 QY 246 FEESQTFGLYKL 258
 DB 192 LSPSSVFGAFAL 204

RESULT 12

J01344
 tumor necrosis factor alpha precursor - horse
 N:Alternate names: cachectin; TNF alpha
 C:Species: Equus caballus (domestic horse)
 C:Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 04-Feb-2000
 C:Accession: J01344
 R:Su, X.; Morris, D.D.; McGraw, R.A.
 Gene 107, 319-321, 1991
 A:Title: Cloning and characterization of gene TNF alpha encoding equine tumor necrosis factor
 A:Reference number: J01344; MUID:92084125
 A:Accession: J01344
 A:Molecule type: DNA
 A:Residues: 1-234 <SDU>
 A:Cross-references: GB:M64087; NID:g164244; PIDN:AAA30959.1; PID:g164245
 C:Comment: This protein is an important proximal mediator of endotoxemia.
 C:Genetics:
 A:Introns: 62/3; 79/1; 95/1
 C:Superfamily: tumor necrosis factor
 C:Keywords: cytokine; cytotoxin; glycoprotein; lipoprotein; lymphokine; macrophage; membrane
 F:78-234/Product: tumor necrosis factor alpha #status predicted <UHM>
 F:19-20/Binding site: myristate (lys) (covalent) #status predicted
 F:82/Binding site: carbonylate (Ser) (covalent) #status predicted
 F:146-178/Disulfide bonds: #status predicted

Query Match 12.8%; Score 181; DB 1; Length 234;
 Best Local Similarity 27.9%; Pred. No. 2,1e-06;
 Matches 61; Conservative 31; Mismatches 91; Indels 36; Gaps 10;

QY 72 KRGHSTGICLVFFVFLVGLGICLGMFOLFLH---OKESP-----PEKKE 119
 DB 20 KAGGQGSRCICLSFSL--LVAGATLFLCLHGVIGPQREEDLPANAFSINLAQT 77
 QY 120 LRK-----VAHLTGKSNRSMPLM-EDTYGIVLISGVYKKGGLVINEGLYFVY 169
 DB 78 LRSSRTSPDKVAVVAVPAQEGQ-LQWLSGRANALLANGKLTNDQLVDPDGLYLYI 136
 QY 170 SVYVFGQSC--NNLPLSHKYVMNRKTPQDLVMEGKMSYCTT-----GOMARSS 220
 DB 171 SVYVFGQSC--NNLPLSHKYVMNRKTPQDLVMEGKMSYCTT-----GOMARSS 220

DB 137 SQVLFKGGCCPSTHLLHTTISRLAVSPSKVNLUSA-IKSPCHTESPEQAEAKWPEPI 195
 QY 221 YLGAVFNLTSAHLYVNVSESLVNVFEES-QTEFGYKL 258
 DB 196 YLGVFQLEKQDLSAETINQPNYLDFAESGQYFFGIAL 234

Query Match 13.1%; Score 177; DB 2; Length 141;
 Best Local Similarity 49.3%; Pred. No. 2,4e-06;
 Matches 35; Conservative 6; Mismatches 28; Indels 2; Gaps 1;

QY 18 SASFPWAPPGTVLPCTSVRRRQRRPPPPPPPPPLPPLPLPKKRGNH 77
 DB 6 SLTPPPRRRIHH 65
 QY 78 STGCLLVWFVFL 88
 DB 66 N-ITPLFLRF 74

RESULT 14

QMHUN
 tumor necrosis factor alpha precursor [validated] - human
 N:Alternate names: cachectin; TNFA
 C:Species: Homo sapiens (man)
 C:Date: 28-Aug-1985 #sequence_revision 28-Aug-1985 #text_change 08-Dec-2000
 C:Accession: A93585; S36153; A93351; A44189; B61478; I53311; S62610; I54522; A01646;
 R:Nedwin, G.E.; Naylor, S.L.; Sakaguchi, A.Y.; Smith, D.; Jarrett-Nedwin, J.; Pennica
 Nucleic Acids Res. 13, 6361-6373, 1985
 A:Title: Human lymphotoxin and tumor necrosis factor genes: structure, homology and c
 A:Reference number: A93585; MUID:86016093
 A:Accession: A93585
 A:Molecule type: DNA
 A:Residues: 1-233 <NED>
 A:Cross-references: GB:X02910; GB:X02159; NID:g37210; PIDN:CAA26669.1; PID:g37210
 R:Rits, F.J.M.; Bouguetoret, L.; Piteu, S.; Caterina, D.; Primavera, G.; Perrot, V.; Ju
 Nature Genet. 3, 137-145, 1993
 A:Title: Dense Alu clustering and a potential new member of the NF-kappaB family with
 A:Reference number: S36153; MUID:93272029
 A:Accession: S36153
 A:Molecule type: DNA
 A:Status: nucleic acid sequence not shown; translation not shown

QY 72 KRGHSTGICLVFFVFLVGLGICLGMFOLFLH---OKESP-----PEKKE 119
 DB 20 KAGGQGSRCICLSFSL--LVAGATLFLCLHGVIGPQREEDLPANAFSINLAQT 77
 QY 120 LRK-----VAHLTGKSNRSMPLM-EDTYGIVLISGVYKKGGLVINEGLYFVY 169
 DB 78 LRSSRTSPDKVAVVAVPAQEGQ-LQWLSGRANALLANGKLTNDQLVDPDGLYLYI 136
 QY 170 SVYVFGQSC--NNLPLSHKYVMNRKTPQDLVMEGKMSYCTT-----GOMARSS 220
 DB 171 SVYVFGQSC--NNLPLSHKYVMNRKTPQDLVMEGKMSYCTT-----GOMARSS 220

A:Note: this protein was isolated from the monocyte-like cell line HL-60 from a promyelid
 R:Wang, A.M.; Crasey, A.A.; Ladner, M.B.; Lin, L.S.; Strickler, J.; Van Arsdel, J.N.;
 Science 228, 149-154, 1985
 A:Title: Molecular cloning of the complementary DNA for human tumor necrosis factor.
 A:Reference number: A44189; MUID:85142190
 A:Accession: A44189
 A:Molecule type: mRNA
 A:Residues: 1-62, 'S', '64-233' <MAN>
 A:Cross-references: GB:M10988; NID:g339737; PIDN:AAA61198.1; PID:g339738
 R:Fukuda, S.; Ando, S.; Sanou, O.; Tanai, M.; Fujii, M.; Maseki, N.; Nakamura, K.I.; Ar
 Lymphokine Res. 7, 175-185, 1988
 A:Title: Simultaneous production of natural human tumor necrosis factor-alpha, -beta and
 A:Reference number: A61478; MUID:88301617
 A:Accession: B61478
 A:Molecule type: protein
 A:Residues: 83-102,109-119,121-128, 'X', '130-131,142-144, 'X', '146, 'XXX', '150-152,159-174,180
 R:Karmann, A.; Fransen, L.; Taverrier, J.; Van Der Heyden, J.; Tizard, R.; Kawashima,
 Eur. J. Biochem. 152, 515-522, 1985
 A:Title: Molecular cloning and expression of human tumor necrosis factor and comparison
 A:Reference number: 153311; MUID:86030296
 A:Accession: 153311
 A:Status: translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 1-233 <MAR>
 A:Cross-references: GB:M26331; NID:g339763; PIDN:AAA6758.1; PID:g339764
 R:Experimental source: U-937 cells
 R:Takizawa-Yamamoto, R.; Yamamoto, S.; Fukuda, S.; Kurimoto, M.
 Eur. J. Biochem. 235, 431-437, 1996
 A:Title: O-Glycosylated species of natural human tumor necrosis factor-alpha.
 A:Reference number: S62610; MUID:96202967
 A:Accession: S62610
 A:Molecule type: protein
 A:Residues: 77-99 <TAK>
 R:D'Alfonso, S.; Ricciardi, P.M.
 Immunogenetics 39, 150-154, 1994
 A:Title: A polymorphic variation in a putative regulation box of the TNFA promoter regio
 A:Reference number: 154522; MUID:94102809
 A:Accession: 154522
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 1-8 <DAL>
 A:Cross-references: GB:S68530; NID:g544751
 R:Stevenson, F.T.; Birstein, S.L.; Locksley, R.M.; Lovett, D.H.
 J. Exp. Med. 176, 1053-1062, 1992
 A:Title: Myristyl acylation of the tumor necrosis factor alpha precursor on specific lys
 A:Reference number: A59163; MUID:93018820
 R:Harwal, B.B.; Kohr, W.J.; Hass, P.E.; Moffat, B.; Spencer, S.A.; Henzel, W.J.; Bring
 J. Mol. Chem. 260, 2345-2354, 1985
 A:Title: Human tumor necrosis factor. Production, purification, and characterization.
 A:Reference number: A92511; MUID:85130974
 A:Contents: annotation; disulfide bond
 C:Comment: Secreted from mitogen-activated macrophages within 4-24 hours after induction
 C:Comment: Secreted from mitogen-activated macrophages within 4-24 hours after induction
 C:Comment: TNF-alpha and -beta (lymphotoxin) are the products of different genes closely
 ut are produced by different cell types and have different induction kinetics.
 C:Genetics:
 A:Gene: GDB:TNF; TNFA
 A:Cross-references: GDB:120441; OMIM:191160
 A:Map position: 6p21.3-6p21.3
 A:Introns: 62/3; 78/1; 94/1
 C:Complex: homotrimer
 C:Superfamily: tumor necrosis factor
 C:Keywords: cytokine; cytotoxin; glycoprotein; homotrimer; lipoprotein; lymphokine; macro
 F:1-76/Domain: propeptide #status predicted <PRO>
 F:77-233/Product: tumor necrosis factor #status experimental <MAT>
 F:19,20/Binding site: myristate (lys) (covalent) #status experimental
 F:81/Binding site: carbohydrate (ser) (covalent) (partial) #status experimental
 F:145-177/Disulfide bonds: #status experimental

Query Match 12.2%; Score 172.5; DB 1; Length 233;
 Best Local Similarity 26.8%; Pred. No. 8.6e-06;

Matches: 60; Conservative 30; Mismatches 91; Indels 43; Gaps 10;
 QY 70 PLKRGHNSITCLLVMEFVVALVGLGMLFPLH-----QKEPSP----- 113
 DB 18 PKKGGPGGSRCLFLSFLI--VAGATLFLCLHFGVIGPREPRLDLSISPLAQ 75
 QY 114 -----PPKKELRKVAHLTGKNSRSMPLMEDTYGIYLL-SGVYKKGGLVINEYG 164
 DB 76 AVRSSSRFPSPK-----PVAHVYANPQAEQ-LQMLNRRANLLANGVELRNQLVPSSEG 130
 QY 165 LFVYSKAYFRGQSC--NNPLSHKYYMRNSKYPQDLVMEGKMSYC-----TTGQM 215
 DB 131 LYLISQVLFKGGQCPSTHVLFTHTISRIVASY-QTKVNLISAIKSPQGRTPGAEAKP 189
 QY 216 WARSYLGAVFNLTSADHLVYNSSELSLVNEES-QTFPGLYKL 258
 DB 190 WYEPYLGAVFQLEKGRDLSEINRPDYLDPAESGQVYFGIALL 233

RESULT 15

S27200
 C:Protein: proline-rich protein - mouse
 C:Species: Mus musculus (house mouse)
 C:Date: 22-Nov-1993 #sequence,revision 10-Nov-1995 #text_change 05-Nov-1999
 C:Accession: S27200
 R:Sazuka, T.; Tomooka, Y.; Kathju, S.; Ikawa, Y.; Noda, M.; Kumar, S.
 Biochim. Biophys. Acta 1132, 240-248, 1992
 A:Title: Identification of a developmentally regulated gene in the mouse central nerv
 A:Reference number: S27200; MUID:93041923
 A:Accession: S27200
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-389 <SAZ>
 A:Cross-references: GB:D10727; NID:g220499; PIDN:BAA01570.1; PID:d1002045; PID:g222050

Query Match 12.2%; Score 172.5; DB 2; Length 389;
 Best Local Similarity 39.2%; Pred. No. 1.5e-05;
 Matches 38; Conservative 4; Mismatches 20; Indels 35; Gaps 3;
 QY 21 SPWAPPGTV--LPQPTSVRRPQGRPPPPPLPPPLPPPLPPPLPPPLPKKRGHNS 78
 DB 4 SPTAPNGSLDSVTYVPSPPTSGPAAPPPPPPPPPPPPPPPPLPPPLPPPLA----- 54
 QY 79 TGLCLLVMEFVVALVGLGMLFPLHQLKEPSP 115
 DB 55 -----SLSHGSGQASPPP 67

Search completed: April 24, 2001, 15:33:06
 Job time: 97 sec

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GenCore version 4.5
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OM protein - protein search, using sw model

Run on: April 24, 2001, 15:33:06 ; Search time 26.96 Seconds
(without alignments)
706.092 Million cell updates/sec

Title: US-09-508-849-2

Perfect score: 1504
Sequence: 1 MQQPFNYPPQIYWVDSAS.....SELSIVNFESQTFGLYKL 277

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 198801 seqs, 68722935 residues

al number of hits satisfying chosen parameters: 198801

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

1: PIR-67:*
2: PIR1:*
3: PIR2:*
4: PIR3:*
5: PIR4:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1492	99.2	281	2	I38707 Fas ligand - human
2	1127	74.9	279	2	A53062 fas ligand - mouse
3	1107.5	73.6	278	2	A49266 fas ligand - rat
4	208	13.8	202	1	B27303 tumor necrosis fac
5	208	13.8	202	1	JN0869 tumor necrosis fac
6	195	13.0	197	1	JH0309 tumor necrosis fac
7	194	12.9	205	1	OMHUX lymphotoxin alpha
8	187.5	12.5	232	1	S12606 tumor necrosis fac
9	185.5	12.3	204	1	S17289 tumor necrosis fac
10	185.5	12.3	234	1	JQ1344 tumor necrosis fac
11	182.5	12.1	204	1	S24642 lymphotoxin - bovi
12	182	12.1	233	1	S24642 tumor necrosis fac
13	177	11.8	141	2	A34043 hypothetical proli
14	176	11.7	233	1	OMHUN tumor necrosis fac
15	174	11.6	233	1	S22052 tumor necrosis fac
16	173	11.5	234	1	A25451 tumor necrosis fac
17	172	11.4	599	2	T10798 pterophorin-S - Vo
18	171.5	11.4	415	1	A34170 acrosin (EC 3.4.21
19	169.5	11.3	185	2	S52715 tumor necrosis fac
20	169.5	11.3	485	2	A33647 sulfated surface g
21	165.5	11.0	389	2	S27200 proline-rich prote
22	164	10.9	235	2	S154490 tumor necrosis fac
23	163.5	10.9	306	2	I49139 lymphotoxin-beta -
24	163	10.8	233	2	S11688 tumor necrosis fac
25	163	10.8	431	2	S47538 acrosin (EC 3.4.21
26	162.5	10.8	234	1	JH0529 tumor necrosis fac
27	161	10.7	193	2	S06192 tumor necrosis fac
28	160.5	10.7	1206	2	S24407 formin isoform IV
29	160.5	10.7	1468	2	S11515 formin - mouse

30	159.5	10.6	421	1	S11674 acrosin (EC 3.4.21
31	159	10.6	235	1	OMNSN tumor necrosis fac
32	155.5	10.3	440	2	I49681 glyceraldehyde-3-p
33	155	10.3	235	2	JU0029 tumor necrosis fac
34	154.5	10.3	502	2	A5197 Wiskott-Aldrich sy
35	154.5	10.3	1110	2	T19673 hypothetical prote
36	153	10.2	760	2	T06291 extensin homolog T
37	152	10.1	487	2	S42442 nuclear protein EB
38	151	10.0	196	2	B48232 cysteine-rich exte
39	151	10.0	439	2	S51939 chitinase (EC 3.2.
40	151	10.0	980	2	S54966 regulatory protein
41	150.5	10.0	464	2	S22697 extensin - Volvox
42	150.5	10.0	1255	2	T31065 diaphanous protein
43	150	10.0	1460	1	EDBE1F immediate-early pr
44	149.5	9.9	645	2	A71416 hypothetical prote
45	148	9.8	1171	2	T17454 diaphanous-related

ALIGNMENTS

RESULT 1
138707
Fas ligand - human
C:Species: Homo sapiens (man)
C:Date: 29-May-1998 #sequence_revision 29-May-1998 #text_change 21-Jul-2000
C:Accession: I38707; JC2340; S57565; I38554
R:Takahashi, T.; Tanaka, M.; Inazawa, J.; Abe, T.; Suda, T.; Nagata, S.
Int. Immunol. 6, 1567-1574, 1994
A:Title: Human Fas ligand: gene structure, chromosomal location and species specific
A:Reference number: I38707; MUID:95127560
A:Accession: I38707
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-281 <RES>
A:Cross-references: EMBL:U11821; NID:9595430; PIDN:AC50124.1; PID:9595431
R:Mita, E.; Hayashi, N.; Ito, S.; Takehara, T.; Hijioka, T.; Kashihara, A.; Fusamoto,
Biochem. Biophys. Res. Commun. 204, 468-474, 1994
A:Title: Role of Fas ligand in apoptosis induced by hepatitis C virus infection.
A:Reference number: JC2340; MUID:95071350
A:Accession: JC2340
A:Molecule type: DNA
A:Residues: 1-281 <MIT>
A:Cross-references: GB:D38122; DDBJ:D29820; NID:9601892; PIDN:BA07320.1; PID:g136990
R:Schatzlein, C.E.
Submitted to the EMBL Data Library, June 1995
A:Reference number: S57565
A:Accession: S57565
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-281 <SCH>
A:Cross-references: EMBL:X89102; NID:9887455; PID:9887456
R:Aliderson, M.R.; Tough, T.W.; Davis-Smith, T.; Braddy, S.; Falk, B.; Schooley, K.A.;
J. Exp. Med. 181, 71-77, 1995
A:Title: Fas ligand mediates activation-induced cell death in human T lymphocytes.
A:Reference number: I38554; MUID:95105731
A:Accession: I38554
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-281 <RE2>
A:Cross-references: EMBL:U08137; NID:9624627; PIDN:AC50071.1; PID:9624628
C:Genetics:
A:Gene: FasL
A:Introns: 131/1, 116/3
C:Keywords: glycoprotein; transmembrane protein
F:80-102/Domain: transmembrane #status predicted <TMM>
F:76,184,250,260/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 99.2%; Score 1492; DB 2; Length 281;
Best Local Similarity 98.6%; Pred. No. 5.3e-103;
Matches 277; Conservative 0; Mismatches 0; Indels 4; Gaps 1;

R.Gray, P.W.:Chen, E.: Li, C.B.; Tang, W.L.; Ruddle, N.
Nucleic Acids Res. 15, 3937, 1987

A>Title: The murine tumor necrosis factor-beta (lymphotoxin) gene sequence.

A:Reference number: I48853; MUID:87231097

A:Accession: I48853

A>Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: DNA

A:Residues: 1-202 <RE2>

A:Cross-references: EMBL:Y00137; NID:g54842; PIDN:CAA68330.1; .PID:g54843
R.I.I., C.

J. Immunol. 138, 4496-4501, 1987

A>Title: Cloning and expression of murine lymphotoxin cDNA.

A:Reference number: I55980; MUID:87224127

A:Accession: I55980

A>Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: mRNA

A:Residues: 1-202 <RE3>

A:Cross-references: GB:M16819; NID:g202088; PIDN:AAA40460.1; PID:g202089

CComment: The first intron occurs in the 5'-untranslated region.

Genetics:

Gene: TnfB

A:Map position: 17

A:introns: 32/3; 66/1

C:Superfamily: tumor necrosis factor

C:Keywords: cytokine; cytotoxin; glycoprotein; lymphokine; macrophage

Query Match 13.8%; Score 208; DB 1; Length 202;
Best Local Similarity 31.9%; Pred. No. 1.5e-08;
Matches 52; Conservative 27; Mismatches 76; Indels 8; Gaps 2;

Qy 123 TASSLGHPSPPEKKE--LRKVHNLGTGSNSRSMPLMEDTYIVLLSGYKKKGGLYN 180
 |: | | | | : | | | | : | | | | : | | | |
Db 40 SAARKTAHPDPOKHITGLIPRAHALVGYPSKONSLLMRSTDRAPFLRHGSLSNSILIP 99
 |: | | | | : | | | | : | | | | : | | | |
Qy 181 ENGLYLVYSKYVFYFGSCN-----MLPLSHKYYMNRNSKYPQDLVMMEGRKMSCTTGQM 234
 |: | | | | : | | | | : | | | | : | | | |
Db 100 TSGLYVVVSQGVSVSGSCPRAIPFPYILAHEVQLFSSQGFPHVPPLLSAQSKSYPPGLGP 159
 |: | | | | : | | | | : | | | | : | | | |
Qy 235 WARSSTLGAVFNLTSDHLVNVSELSLVNFEESSQFFPGLYKL 277
 |: | | | | : | | | | : | | | | : | | | |
Db 160 WRSMTYGAVFLSKGDOLSTHDGISLHFSPSSVFEFGAFAL 202
 |: | | | | : | | | | : | | | | : | | | |

RESULT 5
JN0869
tumor necrosis factor beta - rat
C:Accessions: Rattus norvegicus (Norway rat)
C:Accession: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
A:Accession: JN0869
R.Kwon, J.: Chung, I.Y.; Benveniste, E.N.
Gene 132, 227-236, 1993
A>Title: Cloning and sequence analysis of the rat tumor necrosis factor-encoding genes
A:Reference number: JN0868; MUID:94040766
A:Accession: JN0869
A:Molecule type: DNA
A:Residues: 1-202 <KM0>
A:Cross-references: GB:L00981; NID:g205253; PIDN:AAI16276.1; PID:g205255
A>Note: The authors translated codon CTC for residue 172 as Ile
C:Comment: This protein is structurally related pleiotropic cytokinase with overlapping
C:Genetics:
A:Gene: TNF-beta
A:introns: 32/3; 66/1
C:Superfamily: tumor necrosis factor
C:Keywords: tumor

Query Match	13.8%	Score 208	DB 1	Length 202
Best Local Similarity	32.7%	Pred. No. 1.5e-08		
Matches 54	Conservative 28	Mismatches 71	Indels 12	Gaps 3
123 TASSLGHPSPPEKK---ELRKVAHLTCKSKNSRSMPLMEDEYTGIVLISGVYKKKGLV	178			

D b	40	SASFAH--OPQKFLTGILKPAHILVQYPSKSNLLMRANTDPAFLHGFSLNNNSL	97
Q y	179	INETGLIYVYSVNYVRGSGCN-----NLPESHKYMYRSKYPQDLYMMEGKMSYCTTG	232
D b	98	IFTSGLIYVYSCVYVSGSGCSPPALPTPIYLAHEVQIYPSQIPFVPIPLSAQSKSYPGIQ	157
Q y	233	QMAVSSYLGAVENTSDHLVYVNSSELSLVFESSQTFEGLIKL	277
D b	158	GPVMSMTQGAFLVLSKQQLSTHDDGISHLHFSPSYVFFGFAL	202

RESULT 6

JH0309
tumor necrosis factor beta precursor - rabbit

N:Alternate names: lymphotoxin; TNF beta

C:Species: *Oryctolagus cuniculus* (domestic rabbit)

C:Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999

C:Accession: JH0309; PNU0098

R:Shakhov, A.N.; Kuprash, D.V.; Azizov, M.M.; Jongeneel, C.V.; Nedospasov, S.A.
Gene 95, 215-221, 1990

A:Title: Structural analysis of the rabbit TNF locus, containing the genes encoding T

A:Reference number: JH0309; MUID:91065534

A:Accession: JH0309

A:Molecule type: DNA

A:Residues: 1-197 <SH2>

A:Cross-references: GB:M60340; GB:M35326; NID:g165754; PID:AAA31483.1; PID:g165755;

R:Shakhov, A.N.; Kuprash, D.V.; Turetskaya, R.L.; Azizov, M.M.; Andreyeva, A.V.; Nedosp

MOL: Biol. (Mosk.) 23, 1743-1750, 1989

A:Title: Cloning and structural analysis of the genes, coding for rabbit tumor necros

A:Reference number: PNU0098; MUID:90220566

A:Accession: PNU0098

A:Molecule type: mRNA

A:Residues: 1-197 <SHA>

A:Cross-references: GB:X55745; NID:g297167; PID:CAA39275.1; PID:g297168

C:Genetics:

A:Introns: 25/3; 61/1

C:Superfamily: tumor necrosis factor

C:Keywords: cytokine; cytotoxin; glycoprotein; lymphokine; macrophage

F:1-26/Domain: signal sequence #status predicted <SIG>

F:27-197/Product: lymphotoxin #status predicted <MOT>

	Query Match	13.0%:	Score 195;	DB 1:	Length 197;	
	Best Local Similarity	26.0%:	Pred. No. 1.3e-07;			
	Matches 60;	Conservative 27;	Mismatches 84;	Indels 60;	Gaps 77;	
QY	PPPPPPPLPLPLPLPLKRCGNHSTGLCLVFMFVVALVGLIGMOLFHIQELAEI	114				
Db	PPPPGAGLPGAEFPSPSAR-----	38				
QY	115 RESTSQMTASTLGHPSPPPEKKELRKVAHLTGKSNRSMPLME--DTYGIYLLSGVKYK	173				
Db	39 ---NNQORLQKHFGHST-----LKPAAHLVGDPSAAD-SLRMRANDRAFLRGFSLS	87				
QY	174 KGLVINTGTLFYVSKYFRGQSN-----NLPISHRYVRNRSKYPDDLVMEGKMKMS	227				
Db	88 NNSILVPSGGLYFYVSQVVEGEGCSKPAVPRPYLIAHEVQLFSSQSYSHVPLLSAQ--KS	146				
QY	228 YCTTQQ--YMAVRSYLGAVFNLTAADHLVNVSELSTLVNEEQSTFFGLYKL	277				
Db	147 VCPGPGFWNRVYVGAAVFLTLGGGLSTHDDGIAHLLLSPSSVEFGAAL	197				

RESULT 7
OMHUX
lymphotoxin alpha precursor - human
N:Alternate names: Lymphotoxin A; TNF beta; tumor necrosis factor beta (TNF beta)
C:Species: Homo sapiens (man)
C:Date: 28-Aug-1995 #sequence_revision 07-Jul-1995 #text_change 16-Jun-2000
C:Accession: A92755; S36154; I54482; A93350; B38877; A91906; A61478; S26951; A01645;
R:Medlin, G.E.; Jarrett-Medlin, J.; Smith, D.H.; Naylor, S.L.; Sakaguchi, A.Y.; Goeddel
J. Cell. Biochem. 29, 171-181, 1985
Title: Structure and chromosomal localization of the human lymphotoxin gene.

A:Reference number: A92755; MUID:86086150
A:Accession: A92755
A:Molecule type: DNA
A:Residues: 1-59,'N',61-205 <NED>
R:Tris, F.J.M.; Bougelere, L.; Prieur, S.; Caterina, D.; Primas, G.; Petrol, V.; Jurka
Nature Genet. 3, 137-145, 1993
A>Title: Dense Al clustering and a potential new member of the NFkappaB family within a
A:Reference number: S36152; MUID:93272029
A:Accession: S36154
A>Status: nucleic acid sequence not shown; translation not shown
A:Molecule type: DNA
A:Residues: 1-12,'R',14-205 <IRI>
A:Cross-references: EMBL:D15026; NID:g337211; PIDN:CAA78746.1; PID:g337213
A>Note: The nucleotide sequence was submitted to the EMBL Data Library, August 1992
R:Abraham, L.J.; Du, D.C.; Zahedi, K.; Dawkins, R.L.; Whitehead, A.S.
Immunogenetics 33, 50-53, 1991
A>Title: Haplotypic polymorphisms of the TNF gene.
A:Reference number: I54482; MUID:91139175
A:Accession: I54482
A>Status: translation not shown; translated from GB/EMBL/DDBJ
A:Molecule type: DNA
A:Residues: 1-124,'P',126-205 <RES>
A:Cross-references: GB:M55913; NID:g339742; PIDN:AAB59455.1; PID:g339743
A:Experimental source: ancestral haplotype 57.1
A>Note: 59-Ash was also found (ancestral haplotype 8.1)
R:Gray, P.W.; Aggarwal, B.B.; Benton, C.V.; Bringham, T.S.; Henzel, W.J.; Jarrett, J.A.
Nature 312, 721-724, 1984
A>Title: Cloning and expression of cDNA for human lymphotoxin, a lymphokine with tumour
A:Reference number: A93350; MUID:85086243
A:Accession: A93350
A:Molecule type: mRNA
A:Residues: 1-205 <GRA>
A:Cross-references: GB:X01393; NID:g34444; PIDN:CAA25649.1; PID:g34445
A:Experimental source: lymphoblastoid cell line RPMI-1788
R:Goeddel, D.V.; Aggarwal, B.B.; Gray, P.W.; Leung, D.W.; Nedwin, G.E.; Palladino, M.A.;
Cold Spring Harb. Symp. Quant. Biol. 51, 597-609, 1986
A>Title: Tumor necrosis factors: gene structure and biological activities.
A:Reference number: A32877; MUID:87217059
A:Accession: B32877
A>Status: preliminary; not compared with conceptual translation
A:Molecule type: mRNA
A:Residues: 35-205 <GOE>
R:Kobayashi, Y.; Miyamoto, D.; Asada, M.; Obinata, M.; Osawa, T.
J. Biochem. 100, 727-733, 1986
A>Title: Cloning and expression of human lymphotoxin mRNA derived from a human T cell hy
A:Reference number: A91906; MUID:87057135
A:Accession: A91906
A:Molecule type: mRNA
A:Residues: 1-59,'N',61-205 <KOB>
A:Cross-references: GB:D00102; NID:g219913; PIDN:BA00064.1; PID:g219914
A>Note: The authors determined the codon TAT for residue 156 as Thr and ACC for residue
R:Fukuda, S.; Ando, S.; Sanou, O.; Tanial, M.; Fujii, M.; Masaki, N.; Nakamura, K.I.; An
Lymphokine Res. 7, 175-185, 1988
A>Title: Simultaneous production of natural human tumor necrosis factor-alpha, -beta and
A:Reference number: A61478; MUID:88301617
A:Accession: A61478
A:Molecule type: protein
A:Residues: 56-79;86-95,'X',97,'X',99;119-151,'XX',154-162,'X',164,'X',166,'X',168,'X',1
R:Voigt, C.G.; Maurer-Fogy, I.; Adolf, G.R.
FEBS Lett. 314, 85-88, 1992
A>Title: Natural human tumor necrosis factor beta (lymphotoxin). Variable O-glycosylation
A:Reference number: S26951; MUID:93083656
A:Accession: S26951
A:Molecule type: protein
A:Residues: 35-59,'N',61-205 <VOI>
A>Note: 60-Thr was also found
R:Fukushima, K.; Watanabe, H.; Takeo, K.; Nomura, M.; Asahi, T.; Yamashita, K.
Arch. Biochem. Biophys. 304, 144-153, 1993
A>Title: N-linked sugar chain structure of recombinant human lymphotoxin produced by CHO
A:Reference number: S34742; MUID:93311995
A:Accession: S34742
A:Contents: annotation
A:Comment: Secreted from mitogen-activated lymphocytes within 1-2 days after induction,
while having no detrimental effect on normal cells. It can also act synergistically with

[illegible]

QY 191 VFRCGSC-----NNLPLSHKYVMRNSKYPQDLVMEGKMMSYC'TTGQ-IMARRSYLGA 243

Db 112 VFESEGCCEFPKATPTPLYLAHEVQLFESSQYPFHHVLLSAQ-KSVCGPQGCPNVRSVYOGA 170

A;Residues: 1-204 <CL2>
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A:introns: 32/3; 68/1
C:Superfamily: tumor necrosis factor

A:Reference number: A61478; MUID:88301617
A:Accession: B61478
A:Molecule type: protein
A:Residues: 83-102:109-119:121-128,'X',130-131:142-144,'X',146,'XXX',150-152:159-174:180
R:Marmout, A.; Fransen, L.; Tavenier, J.; Van Der Heyden, J.; Tilard, R.; Kawashima, Eur. J. Biochem. 152, 515-522, 1985
A:Title: Molecular cloning and expression of human tumor necrosis factor and comparison
A:Reference number: 153311; MUID:86030296
A:Accession: 153311
A>Status: translated from GB/EMBL/DBDJ
A:Molecule type: DNA
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A:Cross-references: GB:M26331; NID:g339763; PIDN:AAA36758.1; PID:g339764
A:Experimental source: U-937 cells
R:Takakura-Yamamoto, R.; Yamamoto, S.; Fukuda, S.; Kurimoto, M. Eur. J. Biochem. 235, 431-437, 1996
A:Title: O-Glycosylated species of natural human tumor necrosis factor-alpha.
A:Reference number: S62610; MUID:96202967
A:Accession: S62610
A:Molecule type: protein
A:Residues: 77-99 <TRAK>
R:D'Alfonso, S.; Richardt, P.M. Immunogenetics 39, 150-154, 1994
A:Title: A polymorphic variation in a putative regulation box of the TNFA promoter region
A:Reference number: 154522; MUID:94102809
A:Accession: 154522
A>Status: preliminary; translated from GB/EMBL/DBDJ
A:Molecule type: DNA
A:Residues: 1-8 <DAL>
A:Cross-references: GB:S68530; NID:g544751
R:Stevenson, F.T.; Bursten, S.L.; Locksley, R.M.; Lovett, D.H. J. Exp. Med. 176, 1053-1062, 1992
A:Title: Myristyl acylation of the tumor necrosis factor alpha precursor on specific lys
A:Reference number: A59163; MUID:93018820
A:Contents: annotation; identification of myristylated lysines
R:Aggarwal, B.B.; Kohr, W.J.; Hass, P.E.; Moffat, B.; Spencer, S.A.; Henzel, W.J.; Brink J. Biol. Chem. 260, 2345-2354, 1985
A:Title: Human tumor necrosis factor. Production, purification, and characterization.
A:Reference number: A92511; MUID:85130974
A:Contents: annotation; disulfide bond
C:Comment: Secreted from mitogen-activated macrophages within 4-24 hours after induction out of normal cells. It can also act synergistically with interferon gamma to C:Comment: TNF-alpha and -beta (lymphokine) are the products of different genes closely ut are produced by different cell types and have different induction kinetics.
C:Genetics:
A:Gene: GDB:TNF; TNFA
A:Cross-references: GDB:120441; OMIM:191160
R:Position: 6p21.3-6p21.3
A:Residues: 62/3; 78/1; 94/1
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C:Superfamily: tumor necrosis factor
C:Keywords: cytokine; cytotoxic; glycoprotein; homotrimer; lipoprotein; lymphokine; macro F:1-76/Domain: propeptide #status predicted <PRO>
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DB 76 AVRSSRT-----PSDKP-----VAHVANPQAEQ-LOWLNRANALLANGVEL 119
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DB 120 RDNOLVSEGLIYLYSOVLKFGGCPSTHVLHTHTISRIAVSY-QTKVNLISAIRKSPQC 178
QY 220 -----TTGQMARSSYLGAVENTLSADHLVYNVSELSLVNEES-QTEFGLYKL 277
DB 179 RETPGAEAKPWEPIYLGAVFQLEKGRLSAEINLPDIDPAESGQYFGIALL 233

RESULT 15

S22052
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C:Species: Papio sp. (baboon)
C:Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 04-Feb-2000
C:Accession: S22052
R:Sanjanwala, M.; Edwards, A. submitted to the EMBL Data Library, September 1991
A:Description: Baboon Tumor Necrosis Factor Derived from Sequences of Genomic DNA.
A:Reference number: S22052
A:Accession: S22052
A>Status: preliminary
A:Molecule type: DNA
A:Residues: 1-233 <SAM>
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C:Genetics:
A:Introns: 62/3; 78/1; 94/1
C:Superfamily: tumor necrosis factor
C:Keywords: glycoprotein; lipoprotein; myristylation; transmembrane protein
F:19,20/Binding site: myristate (lys) (covalent) #status predicted
F:81/Binding site: carbonylate (Ser) (covalent) #status predicted
F:145-177/Disulfide bonds: #status predicted

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DB 76 AVRSSRT-----PSDKP-----VAHVANPQAEQ-LOWLNRANALLANGVEL 119
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: Patent No. 5858990
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: APPLICANT: Walsh, Kenneth
: TITLE OF INVENTION: FAS LIGAND COMPOSITIONS FOR TREATMENT OF
: PROLIFERATIVE DISORDERS
: NUMBER OF SEQUENCES: 2

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CORRESPONDENCE ADDRESS:
ADDRESS: Wolf, Greenfield & Sacks, P.C.
STREET: Federal Reserve Plaza, 600 Atlantic Avenue
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02210-2211
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/810,453
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Plumer, Elizabeth R.
REGISTRATION NUMBER: 36,637
REFERENCE/DOCKET NUMBER: S1237/7004
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)720-3500
TELEFAX: (617)720-2441
TELEX: 343
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1790 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
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; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunex Corporation
; STREET: 51 University Street
; CITY: Seattle
; STATE: WA
; COUNTRY: US
; ZIP: 98101

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; ATTORNEY/AGENT INFORMATION:
; NAME: Anderson, Kathryn A.
; REGISTRATION NUMBER: 32,172
; REFERENCE/DOCKET NUMBER: 2805-WO
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  FILE REFERENCE: ISPH-0351
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  VOLUME: 204
  ISSUE: 2
  PAGES: 468-474
  DATE: 1994-10-28
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17 rSerAlaSerSerProTrpAlaProProGlyYthrValLeuProCysProt 34
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239 CAGTGCAGCTCTCCCTGGGCCCTCCAGCACAGCAACTCTTCCCTGCTCAA 288

34 hSerValProArgArgProGlyGlnArgArgProProProProProPro 50
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289 CTCCTGGCCCCAAGAAGCGCTGGTCAAAAGAGAGCCACCACCCACGCCCA 338

51 ProProProLeuProProProProProProProProProProLeuPur 67
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339 CCAGCAACAATACACACTCCGCCGCCGCCGCCACACACTGCTCCACTAC 388

67 OleuProProLeuLysLysArgGlyAsnHisSerThrGlyLeuCysLeuL 84
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389 GCTGCCACCCCTTAAMAAAGAGAGAACACAGCACAGCCTGTGTCTCC 438

84 euValMetPhePheMetValLeuValAlaLeuValGlyLeuGlyLeuGly 100
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439 TTGGAGATTTTTCATAGTTCGTGGTTCCTTGTAAGTAGTATGGGCTGGG 488

101 MetPheGlnLeuPheHisLeuGlnIynsglu P 110
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489 ATGTTTCAGCTCTTCACCTACAGAAGAGCGCGCAAGAACTCCGAGAGTC 538

111 P 111
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539 TACCAAGCAGATGCACACAGCATCATCTTGGAGAACAAATAGCGACC 588

111 roserProProProGluLysGlyLeuArgLysValAlaHisLeuThr 127
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589 CCAATCCACCCCTGAATAAAAAAGAGCTGAGAGAAAGTGGCCATTAA 638

128 GlyLysSerAsnSerArgSerMetProLeuGlnIutrgLiaspthrTyrgl 144
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639 GGCAAGTCCAACCAAGTGCATGCTCTGCATAGGGAAGACACACTATGC 688

144 ylleValLeuLeuSerGlyValLysTyrrLysGlyLysGlyLeuValIlea 161
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689 AATTTGTCCTGCTTTCGGAGTAAGATTAAGAAGGTGGCTTGTATCA 738

161 snGluThrGlyLeuTyrrPheValTYrSerLysValTyrrPheArgGLin 177
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739 ATGAACCTGGCGTGTACTTGTATATTCOAAGTAACTTCCGGGTCAA 788

178 SerCysAsnAsnLeuProLeuSerHisLysValTYrMetArgAsnSerLy 194
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789 TCCTTGCACAACTGCCCTCGAGCCACAAAGGTCTTACAGAGAATCTTAA 838

194 sTyrrProGlnAspLeuValMetMetGlyLysMetMetSerTyrrCyst 211
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839 GTATCCCCAGAGATCTGTGTATATGAGAGGGAAGATGATGAGCTACTGCA 888

211 hrThrGlyGlnMetTrpAlaArgSerSerTYrLeuGlyAlaValAlpheasn 227
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889 CTACTGGGCAAGATGTGGCGCCACACAGCTACTGGGGGCAGTTCAT 938

228 LeuThrSerAlaAspHisLeuTyrrValAsnValSerGluLeuSerLeuVa 244
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939 CTTACACAGTCTGATCATTTATATGTCAACAGTATCTGAGCTCTCTGCT 988

244 IAsnPhleGluGluSerGlnThrPhePhgGlyLeuutyrrLysIleu 258
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889 CAATTTTGGAGAAATTCACACGCTTTTGGGCTTATATAAGCTC 1031


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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/614,584
FILING DATE: 13-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Apple, Randolph T.
REGISTRATION NUMBER: 36,429
REFERENCE/DOCKET NUMBER: 011823-006710US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 864 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..864
OTHER INFORMATION: /product= "CH3/FastL domain of Ig-FastL"
US-08-815-190A-15

alignment_scores:
Quality: 802.50 Length: 179
Ratio: 5.144 Gaps: 1
Percent Similarity: 87.151 Percent Identity: 87.151

alignment_block:
US-09-508-849-1 x US-08-815-190A-15 ..

Align seg 1/1 to: US-08-815-190A-15 from: 1 to: 864

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325 CAGCTCTCCACCTCAGAGAGAGCTGGCAGAACTCCGAGACTACACG 374
111 .....Proserp 113
375 CCAGATGCACACAGCATCATCTTTGGAGAACCAATAGGATCCCCAGTC 424
113 roProProGlnLysGlnLeuArgLysValAlaHisLeuThrGlyLys 129
425 CACCCCTGAAAAAGAGAGCTGAGGAAAGTGCCCATTTAAGAGCAAG 474
130 SerAsnSerArgSerMetProLeuGluTyrGluAspThrTyrGlyLeva 146
475 TCCAACTCAAGGTCCATGCTCTGGAATGGAGAGACACCTATGAAATGT 524
146 lleuLeuSerGlyValLysTyrLysLysGlyGlyLeuValIleasnGluT 163
525 CCTGCTTTCTGGAGTGAAGTATMAAGAGGTGGCCTTGATGCAATGAAG 574
163 hngLLeuTyrPheValTyrSerLysValTyrPheArgGlyLysSerCys 179
575 CTGGGCTTACTTTTATATTCACAAAGTATCTTCCGGGGTCAATCTTGC 624
180 AsnAsnLeuProLeuSerHisLysValTyrMetArgAsnSerLysTyrPr 196
625 AACAACTGCCCCCTGAGCCACAAAGCTACATGAGAGAACTCAAGTATCC 674
196 cGlnAspLeuValMetMetGlnGlyLysMetMetSerTyrCysThrIng 213
675 CCAGATCTGTGATGATGAGAGGAGATGATGATGATGATGATGATGATG 724
213 lylGlnMetTrpAlaArgSerSerTyrLeuGlyAlaValPheasnLeuThr 229
725 GGCAATATGTGGGCGCCGACAGACTACTGAGGCGAGTGTTCATATCTTACC 774
230 SerAlaAspHisLeuTyrValAsnValSerGluLeuSerLeuValAsnPh 246
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775 AGTCTGATCATTTATATGTCACAGNATCTGAGCTCTCTGTCATATT 824
246 egluGluSerGlnThrPhePheGlyLeuTyrLysLeu 258
825 TGAGAACTCAGACGCTTTTGGCTTATATTAAGCTC 861

seq_name: /cgn2_6/prodata/2/ina/6B_COMB.seq:us-08-855-825-13

seq_documentation_block:
Sequence 13, Application US/08855825
Patent No. 6183951
GENERAL INFORMATION:
APPLICANT: Plevy, Scott E.
Targan, Stephan R.
Taylor, Kent
TITLE OF INVENTION: Methods of Diagnosing Clinical Subtypes
of Crohn's Disease with Characteristic Responsiveness to
Anti-Th1 Cytokine Therapy
NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: United States
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/855,825
FILING DATE: 12-May-1997
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PW 2591
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 780 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: CDS
LOCATION: 171..780
SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-08-855-825-13

alignment_scores:
Quality: 237.50 Length: 256
Ratio: 1.661 Gaps: 5
Percent Similarity: 55.859 Percent Identity: 30.078

alignment_block:
US-09-508-849-1 x US-08-855-825-13 ..

Align seg 1/1 to: US-08-855-825-13 from: 1 to: 780

17 SerSerAlaSerSerProTrpAla.....Pr 25
25 TCTCTGCCCCATCTCTTGGGCTGCCCTGCTTGGACTTAC 74
25 oProGlyThrValLeuProCysPro...ThSerValProArgArgProG 41
75 GCCCAGACAGTGTCTGCCCTGTGCTGGGCTCTGCCCTCTCTGCACCG 124
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APPLICANT: Immunex Corporation.
TITLE OF INVENTION: Cytokine That Induces Apoptosis
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESS: Kathryn A. Anderson, Immunex Corporation
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Apple 7.5.2
SOFTWARE: Microsoft Word, Version 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/10895
FILING DATE: 25-JUN-1996
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/496,632
FILING DATE: 29-JUN-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/548,368
FILING DATE: 01-NOV-1995
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Anderson, Kathryn A.
REGISTRATION NUMBER: 32,172
REFERENCE/DOCKET NUMBER: 2835-WO
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 587-0430
TELEFAX: (206) 233-0644
TELEX: 756822

INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1366 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA to mRNA
HYPOTHEetical: NO
ANTI-SENSE: NO
IMMEDIATE SOURCE:
CLONE: MUAIC
FEATURE:
NAME/KEY: CDS
LOCATION: 47..919
PCT-US96-10895-5

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alignment_scores:
Quality: 187.00      Length: 180
Ratio: 1.748         Gaps: 8
Percent Similarity: 59.444      Percent Identity: 29.444

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alignment_block:
US-09-508-849-1 x PCT-US96-10895-5 ..

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Align seg 1/1 to: PCT-US96-10895-5 from: 1 to: 1366

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393 CCTTCCCGAGAGTGGAGAACCTCAGAAAGTGCGACATCTACTGGG 442
129 .....LYSERASNSERARGSERMTPROLEU..... 137
:||||| :||||| :||||| :|||||
443 ATCACTCGAGAGACCACTCACTTAATTCACATCTCCAGAGATGGAAA 492
138 .....GLUTPILASPTHR..TYRGLYLIEV 146
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493 GACCTTAGCGCAGAGATGTAATCTCTGGAGATCTCTCGAAGGCGCAAT 542

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146 ALLEULEUSERGLYVALYSLYRGLYSLGLYLEUVALILEASNGLU 162
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543 CATTTCTCAACCAACGCTGCTTTAGGAATGAGAGCTGTGCATCGAGCG 592
163 THNGLYLEUTYRPHVALTYRSEIRLYSVALTYRPHARGGLYGLINSERCY 179
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593 GAGGCGCTTATTACATCTATTCTCCCAACATCTCCGATTTCCAGAACG 642
179 SASNASNLEU.....PROL 184
:||||| :||||| :||||| :|||||
643 TGAAGACGCTTCCCAAGATGCTCAAGAGCAAGTGAGAACCAACACAGC 692
184 EUSERISLYSVALTYRMETARGANSERLYSTYRPROGLINSPLLEUVAL 200
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693 TGGTGAGTACATCTAC...AAGTACACCAAGCATTCGATCCCAATGAG 739
201 METMETGLUGLYLSMETMETSEIRYCYSTHRTGILGIMETRPAL 217
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740 CTCATGACAGAGCGCCGCAACAGC.....TGTTGCTC 771
217 AARG.....SERSEIRYLEUGLYALALALPHA 227
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772 CAGAGATGCCGAGTAGCAGACTGACTCATCTATCAGGAGATGCTTGC 821
227 SNLEUTHSERALASPHISLEUTYRVALASNUVALSERGLULEUSERLEU 243
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822 AGCTAAATAAATAATGACAGGATTTGTTGCTGTGCAATGACAACTTGG 871
244 VALASNPHEGLUGLUSERGLNTRHPHEGLYLEUTYR 256
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872 ATGACCTGATCACAAGACCACTTCTTGGAGCCTTT 910

seq_name: /cgn2_6/plodata/2/ina/6A_COMB.seq:US-08-996-139-12
seq_documentation_block:
Sequence 12, Application US/08996139
Patent No. 6017729
GENERAL INFORMATION:
APPLICANT: Anderson, Dirk M.
APPLICANT: Galibert, Laurent
APPLICANT: Maraskovsky, Eugene
TITLE OF INVENTION: Receptor Activator of NF-kappaB
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESS: Immunex Corporation, Law Department
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Power Macintosh
OPERATING SYSTEM: Apple Operating System 7.5.5
SOFTWARE: Microsoft Word for Power Macintosh 6.0.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/996,139
FILING DATE: 22 DECEMBER 1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 60/064,671
FILING DATE: 14 OCTOBER 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/813,509
FILING DATE: 07 MARCH 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: USSN 08/772,330
FILING DATE: 23 DECEMBER 1996
ATTORNEY/AGENT INFORMATION:
NAME: Perkins, Patricia Anne
REGISTRATION NUMBER: 34,693
REFERENCE/DOCKET NUMBER: 2851-A

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TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206)587-0430
 TELEFAX: (206)233-0644
 INFORMATION FOR SEQ ID NO: 12:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 954 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 ORIGINAL SOURCE:
 ORGANISM: Homo sapiens
 IMMEDIATE SOURCE:
 LIBRARY:
 CLONE: hURANKL (full length)
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..951
 US-09-996-139-12

alignment_scores:
 Quality: 185.00 Length: 342
 Ratio: 1.284 Gaps: 14
 Percent Similarity: 41.813 Percent Identity: 22.515

alignment_block:
 US-09-508-849-1 x US-08-996-139-12 ..

Align seg 1/1 to: US-08-996-139-12 from: 1 to: 954

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40  rGlglnArgArgProProProProProProProProProProPro 56
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52  ATGGG...CGCGGCGCCGGAGCGCCGACAGAGGCCCTCGACGCC 98
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56  oProProProProProProProProProProProProProPro 73
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99  GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 126
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73  ySArgGlyAsnHisSerThrGlyLeuCysLeuValMetPhePhe 89
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127  ..GCCGCTCCCGCTCC..... 141
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90  ValLeuValAlaLeuValGlyLeuGlyLeuGly..... 100
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142  ATGTCTGTGGCCCTCCTCGTGGGCTGGGCTGGGCTGGTGTGCA 191
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101  ...MetPheGlnLeuPheHisLeuGlnLysGluProSerProPro 116
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192  CGCGCTGTCTTCTATTTCAGAGCGAGATGATCCATAATAGAT 241
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116  Lu..... 116
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242  AGATGGCACTCACTGATTTATAGAAATTTGAGACTCCATGA 291
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116  .. 116
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
292  GATTTTCAGACACAACTCTGGAGAGTCAGATACAAATTAAC 341
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117  ..... 117
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342  TTCATGTAGAGAAATTAACAGGCCCTTTCAGAGAGCTGTGCA 391
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120  euArgLysVal..... 123
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492  TTTTGCTATCTCACT.....ATTATGCCACCGACATCCATCTGTT 535
137  .....LeuGluTrpGlnAspThrTyrglyLeuValLeu 147
536  CCCATAAGTAGAGTCTGCTCTGTTGACCATGATGCGGTGGGCCAAG 585
148  LeuSerGlyValLysTyrglyLysGlyLeuValLeuGluTrpGln 164
586  ATCTCCACATGACTTTTACCAATGGAACCTAATGTTATCAGATGG 635
164  yLeuTyPheValTyrglySerLysValTyrglyGlyGlnSerCysAsn 181
636  CTTTATTACCTGATGACCAATTTGCTTTCGACATCATGAACCTTACG 685
181  sn.....LeuProLeuSerHisLysValTyrglyMetArg 191
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221  ....TyrLeuGlyAlaValPheAsnLeuThrSerAlaAspHisLeu 234
818  ATTCATAAAGCTGTGGATTTTAAATTACGTCGTGAGAGAAATC 867
235  TyrValAsnValSerGluLeuSerLeuValAsnPheGlnGlnSerGln 251
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251  rPhePheGlyLeuTyrglyLysLeu 258
918  ATACTTGGGCGTTTAAACTT 939
seq_name: /cgn2.6/ptdata/2/1na/6B_COMB.seq:US-07-705-490-1
seq_documentation_block:
: Sequence 1, Application US/07705490
: Patent No. 6107025
: GENERAL INFORMATION:
: APPLICANT: Caskey, C. T.
: APPLICANT: Nelson, David L.
: APPLICANT: Pieretti, Maura
: APPLICANT: Warren, Stephen T.
: APPLICANT: Oostre, Ben A.
: TITLE OF INVENTION: Diagnosis of the Fragile X Syndrome
: NUMBER OF SEQUENCES: 14
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Thomas D. Paul
: STREET: 1301 McKinney, Suite 5100
: CITY: Houston
: STATE: Texas
: COUNTRY: U.S.A.
: ZIP: 77010-3095
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/07/705,490
: FILING DATE: 19910708
: CLASSIFICATION: 435

```

ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-5350
TELECOMMUNICATION INFORMATION:
TELEPHONE: 713/651-5325
TELEFAX: 713/651-5246
TELEX: 762829
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3765 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-07-705-490-1

alignment_scores:
Quality: 180.00 Length: 88
Ratio: 3.396 Gaps: 4
Percent Similarity: 60.227 Percent Identity: 46.591

alignment_block:
US-09-508-849-1 x US-07-705-490-1/rev ..

Align seg 1/1 to reverse of: US-07-705-490-1 from: 1 to: 3765

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18 rAlaserSerProTTPaLaProProGlyThrValLeuProCys.ProThr 34
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221 CGCACTTCACACCAACGCTCTCCTCCTCTCAGCCCTGCTAGCGCC 172
35 ...SerValProArgArgProGlyGlnArgArg..... 44
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171 GGGAGCCCCCGCCCGAGAGGTGGGCTGCGCGCGCTGAGGCCAGCGCC 122
45 ...ProProProProProProProProProProProProProProPro 60
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121 GCGCGCGCGCGCGCGCGCGCGCGCTCGCGCGCGCGCGCGCGCGCC 72
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71 CGCCTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTGCGCGAGCC 22
77 HisSerThrGly 80
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21 CCTGGCAGCGGC 10
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seq_name: /cgn2_6/ptodata/2/lna/6B_COMB.seq:US-07-751-891B-1

seq_documentation_block:
Sequence 1, Application US/07751891B
Patent No. 6180337
GENERAL INFORMATION:
APPLICANT: Caskey, C. T.
Nelson, David L.
Pieretti, Maura
Warren, Stephen T.
Oostra, Ben A.
Fu, Ying-hui
TITLE OF INVENTION: Diagnosis of the Fragile X Syndrome
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Thomas D. Paul
STREET: 1301 McKinney, Suite 5100
CITY: Houston
STATE: Texas

COUNTRY: U.S.A.
ZIP: 77010-3095
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07751,891B
FILING DATE: 29-Aug-1991
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-5350
TELECOMMUNICATION INFORMATION:
TELEPHONE: 713/651-5325
TELEFAX: 713/651-5246
TELEX: 762829
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3765 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-07-751-891B-1

alignment_scores:
Quality: 180.00 Length: 88
Ratio: 3.396 Gaps: 4
Percent Similarity: 60.227 Percent Identity: 46.591

alignment_block:
US-09-508-849-1 x US-07-751-891B-1/rev ..

Align seg 1/1 to reverse of: US-07-751-891B-1 from: 1 to: 3765

```
2 GInGInPheAsnTyRProTyRProGInIleTyRTrpValAspSerse 18
   ::::::::::: ||| ::::::::::: |||
265 GAACATCCTTTACAAATGCTGTAGAAAGCCCATGG.....AGCCC 222
18 rAlaserSerProTTPaLaProProGlyThrValLeuProCys.ProThr 34
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
221 CGCACTTCACACCAACGCTCTCCTCCTCTCAGCCCTGCTAGCGCC 172
35 ...SerValProArgArgProGlyGlnArgArg..... 44
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
171 GGGAGCCCCCGCCCGAGAGGTGGGCTGCGCGCGCTGAGGCCAGCGCC 122
45 ...ProProProProProProProProProProProProProProPro 60
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
121 GCGCGCGCGCGCGCGCGCGCGCGCTCGCGCGCGCGCGCGCGCGCC 72
60 rObProProLeuProProLeuProProLeuProProLeuLysLysArgLysn 76
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
71 CGCCTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCTGCGCGAGCC 22
77 HisSerThrGly 80
   ::::::::::: |||
21 CCTGGCAGCGGC 10
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Db 1 MQQFENYPYQIYWVDSSASSPWAPGTVLPCTSVPRRGQRKPPPPPPPLPPPP 600

QY 61 PPLPPLPPLPKRGHNSGTCLLVFEMVVALVGLGGMFOLFHLOKE----- 110
DB 61 PPLPPLPPLPKRGHNSGTCLLVFEMVVALVGLGGMFOLFHLOKEELARESTSQ 120
QY 111 PPLPPLPPLPKRGHNSGTCLLVFEMVVALVGLGGMFOLFHLOKEELARESTSQ 120
DB 121 MHTASSLEKQIGHPSPEPEKELRKVAHLTGKNSNSMPLMEDDTYGIYLLSGVKKKGG 157
QY 158 LVINETGLYFVYSKYVFRGSCNNLPLSHKVVYRNRSKYPDDLVMMEGKMMSYCTTGOMNA 217
DB 181 LVINETGLYFVYSKYVFRGSCNNLPLSHKVVYRNRSKYPDDLVMMEGKMMSYCTTGOMNA 240
QY 218 RSSYLGAVERNLTSAADHLVYVNSLSLVNFEESOTFFGLYKL 258
DB 241 RSSYLGAVERNLTSAADHLVYVNSLSLVNFEESOTFFGLYKL 281

RESULT 2

US-08-815-190A-2
Sequence 2, Application US/08815190A
Patent No. 6046310
GENERAL INFORMATION:
APPLICANT: Queen, Cary L.
APPLICANT: Schneider, William P.
APPLICANT: Vasquez, Maximiliano
TITLE OF INVENTION: Fas Ligand Fusion Proteins and Their
TITLE OF INVENTION: Uses
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/815,190A
FILING DATE: 11-MAR-1997
CLASSIFICATION: 336
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/614,584
FILING DATE: 13-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Apple, Randolph T.
REGISTRATION NUMBER: 36,429
REFERENCE/DOCKET NUMBER: 011823-0067100S
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 281 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-815-190A-2

Query Match 98.5%; Score 1389.5; DB 3; Length 281;
Best Local Similarity 91.8%; Pred. No. 2.8e-100;
Matches 258; Conservative 0; Mismatches 0; Indels 23; Gaps 1;
QY 1 MOQPFNVYPOIYVWDSASSPMAAPGTLYPCPTSVPRRGQRPPPPPPPLPPPPPP 60
DB 1 MOQPFNVYPOIYVWDSASSPMAAPGTLYPCPTSVPRRGQRPPPPPPPPPLPPPPPP 60
QY 61 PPLPPLPPLPKRGHNSGTCLLVFEMVVALVGLGGMFOLFHLOKE----- 110

DB 61 PPLPPLPPLPKRGHNSGTCLLVFEMVVALVGLGGMFOLFHLOKEELARESTSQ 120
QY 111 PPLPPLPPLPKRGHNSGTCLLVFEMVVALVGLGGMFOLFHLOKEELARESTSQ 157
DB 121 MHTASSLEKQIGHPSPEPEKELRKVAHLTGKNSNSMPLMEDDTYGIYLLSGVKKKGG 180
QY 158 LVINETGLYFVYSKYVFRGSCNNLPLSHKVVYRNRSKYPDDLVMMEGKMMSYCTTGOMNA 217
DB 181 LVINETGLYFVYSKYVFRGSCNNLPLSHKVVYRNRSKYPDDLVMMEGKMMSYCTTGOMNA 240
QY 218 RSSYLGAVERNLTSAADHLVYVNSLSLVNFEESOTFFGLYKL 258
DB 241 RSSYLGAVERNLTSAADHLVYVNSLSLVNFEESOTFFGLYKL 281

RESULT 3

US-09-290-640-25
Sequence 25, Application US/09290640
Patent No. 6204055
GENERAL INFORMATION:
APPLICANT: Dean, Nicholas M.
APPLICANT: Marcussen, Eric G.
TITLE OF INVENTION: Antisense Compound Modulation of Fas Mediated Signaling
FILE REFERENCE: ISPh-0351
CURRENT APPLICATION NUMBER: US/09/290,640
CURRENT FILING DATE: 1999-04-12
NUMBER OF SEQ ID NOS: 85
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 25
LENGTH: 281
TYPE: PRT
ORGANISM: Homo sapiens
US-09-290-640-25

Query Match 98.5%; Score 1389.5; DB 4; Length 281;
Best Local Similarity 91.8%; Pred. No. 2.8e-100;
Matches 258; Conservative 0; Mismatches 0; Indels 23; Gaps 1;
QY 1 MOQPFNVYPOIYVWDSASSPMAAPGTLYPCPTSVPRRGQRPPPPPPPLPPPPPP 60
DB 1 MOQPFNVYPOIYVWDSASSPMAAPGTLYPCPTSVPRRGQRPPPPPPPPPLPPPPPP 60
QY 61 PPLPPLPPLPKRGHNSGTCLLVFEMVVALVGLGGMFOLFHLOKE----- 110
DB 61 PPLPPLPPLPKRGHNSGTCLLVFEMVVALVGLGGMFOLFHLOKEELARESTSQ 120
QY 111 PPLPPLPPLPKRGHNSGTCLLVFEMVVALVGLGGMFOLFHLOKEELARESTSQ 157
DB 121 MHTASSLEKQIGHPSPEPEKELRKVAHLTGKNSNSMPLMEDDTYGIYLLSGVKKKGG 180
QY 158 LVINETGLYFVYSKYVFRGSCNNLPLSHKVVYRNRSKYPDDLVMMEGKMMSYCTTGOMNA 217
DB 181 LVINETGLYFVYSKYVFRGSCNNLPLSHKVVYRNRSKYPDDLVMMEGKMMSYCTTGOMNA 240
QY 218 RSSYLGAVERNLTSAADHLVYVNSLSLVNFEESOTFFGLYKL 258
DB 241 RSSYLGAVERNLTSAADHLVYVNSLSLVNFEESOTFFGLYKL 281

RESULT 4

PCT-US95-00362-2
Sequence 2, Application PC/TUS9500362
GENERAL INFORMATION:
APPLICANT: IMMUNEX CORPORATION
TITLE OF INVENTION: Ligand That Binds Fas Antigen
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: US


```
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Apple 7.1
SOFTWARE: Microsoft Word, Version 5.1a
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/00362
FILING DATE: 06-JAN-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/179,138
FILING DATE: 07-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/190,559
FILING DATE: 01-FEB-1994
ATTORNEY/AGENT INFORMATION:
NAME: Anderson, Kathryn A.
REGISTRATION NUMBER: 32,172
REFERENCE/DOCKET NUMBER: 2805-WO
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 281 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US95-00362-2
```

```
Query Match          98.5%; Score 1389.5; DB 5; Length 281;
Best Local Similarity 91.8%; Pred. No. 2.8e-100;
Matches 258; Conservative 0; Mismatches 0; Indels 23; Gaps 1;
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QY 1 MOQPNVYPIQIYWDSASSFWAPPGTVLPCPTSVPRRPGRRPPPPPLPPPPP 60
   |||||
DB 1 MOQPNVYPIQIYWDSASSFWAPPGTVLPCPTSVPRRPGRRPPPPPLPPPPP 60
QY 61 PPLPLPLPLKRRGNHSTGCLLMFVAVLALVGLGIGMQLHLOKE----- 110
   |||||
DB 61 PPLPLPLPLKRRGNHSTGCLLMFVAVLALVGLGIGMQLHLOKE----- 110
QY 111 -----PSPPEKKELRKVAHLTGKSNRSMPLEMDYIGVILSGVYKKKG 157
   |||||
DB 121 MHTASLEKQIGHPPPEKKELRKVAHLTGKSNRSMPLEMDYIGVILSGVYKKKG 180
QY 158 LVINETGLFYVSKYFRGQSCNNPLPSHKYVYRNRSKTIPODLVMEGKMSTCTTGOMMA 217
   |||||
DB 158 LVINETGLFYVSKYFRGQSCNNPLPSHKYVYRNRSKTIPODLVMEGKMSTCTTGOMMA 217
QY 181 LVINETGLFYVSKYFRGQSCNNPLPSHKYVYRNRSKTIPODLVMEGKMSTCTTGOMMA 240
   |||||
DB 241 RSYLGAVFNLTSADHLVYVNSELSLVNFEESQTFEGLYKL 281
   |||||
```

```
RESULT 5
PCT-US95-00362-5
Sequence 5, Application PC/TUS9500362
GENERAL INFORMATION:
APPLICANT: IMMUNEX CORPORATION
TITLE OF INVENTION: Ligand That Binds Fas Antigen
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Immunex Corporation
STREET: 51 University Street
CITY: Seattle
STATE: WA
COUNTRY: US
ZIP: 98101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Apple 7.1
SOFTWARE: Microsoft Word, Version 5.1a
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/00362
FILING DATE: 06-JAN-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/179,138
FILING DATE: 07-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/190,559
FILING DATE: 01-FEB-1994
ATTORNEY/AGENT INFORMATION:
NAME: Anderson, Kathryn A.
REGISTRATION NUMBER: 32,172
REFERENCE/DOCKET NUMBER: 2805-WO
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 279 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US95-00362-5
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Query Match          74.7%; Score 1053.5; DB 5; Length 279;
Best Local Similarity 71.2%; Pred. No. 2.3e-74;
Matches 200; Conservative 23; Mismatches 33; Indels 25; Gaps 3;
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QY 1 MOQPNVYPIQIYWDSASSFWAPPGTVLPCPTSVPRRPGRRPPPPPLPPPPP 60
   |||||
DB 1 MOQPNVYPIQIYWDSASSFWAPPGTVLPCPTSVPRRPGRRPPPPPLPPPPP 60
QY 61 PPLPLPLPLKRRGNHSTGCLLMFVAVLALVGLGIGMQLHLOKE----- 110
   |||||
DB 61 PPLPLPLPLKRRGNHSTGCLLMFVAVLALVGLGIGMQLHLOKE----- 110
QY 111 -----PSPPEKKELRKVAHLTGKSNRSMPLEMDYIGVILSGVYKKKG 157
   |||||
DB 119 SLKVSFEKQINPSPSEKKREPRVAHLTGMPHSRSDPLEMDYIGVILSGVYKKKG 178
QY 158 LVINETGLFYVSKYFRGQSCNNPLPSHKYVYRNRSKTIPODLVMEGKMSTCTTGOMMA 217
   |||||
DB 179 LVINETGLFYVSKYFRGQSCNNPLPSHKYVYRNRSKTIPODLVMEGKMSTCTTGOMMA 238
QY 218 RSYLGAVFNLTSADHLVYVNSELSLVNFEESQTFEGLYKL 258
   |||||
DB 239 RSYLGAVFNLTSADHLVYVNSELSLVNFEESQTFEGLYKL 279
   |||||
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```
RESULT 6
US-08-751-512-8
Sequence 8, Application US/08751512
Patent No. 6001962
GENERAL INFORMATION:
APPLICANT: Ramer, J. Kevin
APPLICANT: Williams, Lewis T.
TITLE OF INVENTION: Modified FAS Ligands
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: TOWNSEND and TOWNSEND and CREW LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/751,512
FILING DATE: 15-NOV-1996
CLASSIFICATION: 435
```

ATTORNEY/AGENT INFORMATION:
NAME: Murphy, Matthew B.
REGISTRATION NUMBER: 39,787
REFERENCE/DOCKET NUMBER: 02307K-07100US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-576-0200
TELEFAX: 415-576-0300
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 376 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-751-512-8

Query Match 58.8%; Score 829; DB 3; Length 376;
Best Local Similarity 68.4%; Pred. No. 6.5e-57;
Matches 173; Conservative 3; Mismatches 25; Indels 52; Gaps 5;

QY 48 PPPPPPLPPPPPPPLPLPLPLPKKGN-----HSTGL---CL-----LVMPF 88
134 RAKPTTPRPRPRPRPTASQPLSLRPRACRPAGAVHTRGIDFACLEHHHHHEFEY 193
DB 89 MVVALVGLGLGMPOLFLOKE-----PSPPEKKELRVAH 125
194 M-----PHEOLFHLQKELAELERESTQMHNTASLEKQIGHPSPPPEKKELRVAH 243
QY 126 LTGKSNSRSMPLMEDYGVLLSGVYKKGGLVINEGLFYYSKYFREGOSNNPLSL 185
244 LTGKSNSRSMPLMEDYGVLLSGVYKKGGLVINEGLFYYSKYFREGOSNNPLSL 303
DB 186 HKVYMRNSKYPODLVMMGKMSYCTTGOMARRSYLGAVFNLSADHLVYNSELV 245
304 HKVYMRNSKYPODLVMMGKMSYCTTGOMARRSYLGAVFNLSADHLVYNSELV 363
QY 246 FEESQTFEGLYKL 258
DB 364 FEESQTFEGLYKL 376

RESULT 7
US-08-649-100-9
Sequence 9, Application US/08649100
Patent No. 6114507
GENERAL INFORMATION:
APPLICANT: SHIRAKAWA, KAMON
APPLICANT: MATSUE, TOKOKAZU
APPLICANT: NAGATA, SHIGEKAZU
APPLICANT: VASQUEZ, MAXIMILIANO
TITLE OF INVENTION: ANTI-FAS LIGAND ANTIBODY AND ASSAY
TITLE OF INVENTION: METHOD USING THE ANTI-FAS LIGAND ANTIBODY
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: BIRCH, STEWART, KOLASCH AND BIRCH
STREET: PO BOX 747
CITY: FALLS CHURCH
STATE: VA
COUNTRY: USA
ZIP: 22040-0747
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/649,100
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: MURPHY JR, GERALD M
REGISTRATION NUMBER: 28,977

REFERENCE/DOCKET NUMBER: 1110-160
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 205-8000
TELEFAX: (703) 205-8050
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 179 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-649-100-9

Query Match 56.9%; Score 802.5; DB 4; Length 179;
Best Local Similarity 87.2%; Pred. No. 3.3e-55;
Matches 156; Conservative 0; Mismatches 0; Indels 23; Gaps 1;

QY 103 QLFHLOKE-----PSPPEKKELRVAHILTGKSNSRSMPL 139
DB 1 QLFHLOKELAELERESTQMHNTASLEKQIGHPSPPPEKKELRVAHILTGKSNSRSMPL 60
QY 140 EDHYGVLLSGVYKKGGLVINEGLFYYSKYFREGOSNNPLSLHKVYMRNSKYPODL 199
DB 61 EDHYGVLLSGVYKKGGLVINEGLFYYSKYFREGOSNNPLSLHKVYMRNSKYPODL 120
QY 200 VMMGKMSYCTTGOMARRSYLGAVFNLSADHLVYNSELVNEESQTFEGLYKL 258
DB 121 VMMGKMSYCTTGOMARRSYLGAVFNLSADHLVYNSELVNEESQTFEGLYKL 179

RESULT 8
US-08-815-190A-16
Sequence 16, Application US/08815190A
Patent No. 6046310
GENERAL INFORMATION:
APPLICANT: Queen, Cary L.
APPLICANT: Schneider, William P.
APPLICANT: Vasquez, Maximiliano
TITLE OF INVENTION: Fas Ligand Fusion Proteins and Their
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/815,190A
FILING DATE: 11-MAR-1997
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/614,584
FILING DATE: 13-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Apple, Randolph T.
REGISTRATION NUMBER: 36,429
REFERENCE/DOCKET NUMBER: 011823-0067100US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 287 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: protein
US-08-815-190A-16

Query Match 56.9%; Score 802.5; DB 3; Length 287;
Best Local Similarity 87.2%; Pred. No. 5.4e-55;
Matches 156; Conservative 0; Mismatches 0; Indels 23; Gaps 1;

103 QLFHOKK-----PSPPEKELKRVKVAHLTGKSNRSMPLM 139
109 QLFHOKKLAELRESTSQMHTASSLEKQIGSPSPPEKELKRVKVAHLTGKSNRSMPLM 168
140 EDTYGVILSGVKKYKKGGLVINEGLVYVSKYVRGSCNNLPLSHKYVMNSKYPODL 199
169 EDTYGVILSGVKKYKKGGLVINEGLVYVSKYVRGSCNNLPLSHKYVMNSKYPODL 228
200 VMMEGKMSYCTTGOMARRSYLGAVFNLTSADHLYVNVSELVNFESQTFEGLYKL 258
229 VMMEGKMSYCTTGOMARRSYLGAVFNLTSADHLYVNVSELVNFESQTFEGLYKL 287

RESULT 9

US-08-584-031-17
Sequence 17, Application US/08584031A
Patent No. 6030945
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
TITLE OF INVENTION: APO-2 LIGAND
FILE REFERENCE: 11669.220503
CURRENT APPLICATION NUMBER: US/08/584.031A
CURRENT FILING DATE: 1996-01-09
NUMBER OF SEQ ID NOS: 17
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 17
LENGTH: 149
TYPE: PRT
ORGANISM: Homo sapiens
US-08-584-031-17

Query Match 54.7%; Score 771.5; DB 3; Length 149;
Best Local Similarity 99.3%; Pred. No. 6.6e-53;
Matches 148; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

111 PSPPEKELKRVKVAHLTGKSNRSMPLMEDTYGI-VILSGYKRYKKGGLVINEGLYFY 169
1 PSPPEKELKRVKVAHLTGKSNRSMPLMEDTYGI-VILSGYKRYKKGGLVINEGLYFY 60
170 SKYVRGSCNNLPLSHKYVMNSKYPODLVMMEGKMSYCTTGOMARRSYLGAVFNL 229
61 SKYVRGSCNNLPLSHKYVMNSKYPODLVMMEGKMSYCTTGOMARRSYLGAVFNL 120
230 SADHLYVNVSELVNFESQTFEGLYKL 258
121 SADHLYVNVSELVNFESQTFEGLYKL 149

RESULT 10

US-08-630-172-5
Sequence 5, Application US/08630172
Patent No. 6060054
GENERAL INFORMATION:
APPLICANT: Staerz, Uwe
TITLE OF INVENTION: NOVEL PRODUCT AND PROCESS FOR T
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sheridan Ross & McIntosh
STREET: 1700 Lincoln Street, 35th Floor
CITY: Denver
STATE: Colorado
COUNTRY: U.S.
ZIP: 80203

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/630.172
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Connell, Gary J.
REGISTRATION NUMBER: 32,020
REFERENCE/DOCKET NUMBER: 2879-36
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 863-9700
TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 145 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-630-172-5

Query Match 53.7%; Score 758; DB 3; Length 145;
Best Local Similarity 99.3%; Pred. No. 7e-52;
Matches 144; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

114 PEKKEKLRKVAHLTGKSNRSMPLMEDTYGIVLLSGYKRYKKGGLVINEGLYFY 173
1 PEKKEKLRKVAHLTGKSNRSMPLMEDTYGIVLLSGYKRYKKGGLVINEGLYFY 60
174 FRGSCNNLPLSHKYVMNSKYPODLVMMEGKMSYCTTGOMARRSYLGAVFNLTSADH 233
61 FRGSCNNLPLSHKYVMNSKYPODLVMMEGKMSYCTTGOMARRSYLGAVFNLTSADH 120
234 LYVNVSELVNFESQTFEGLYKL 258
121 LYVNVSELVNFESQTFEGLYKL 145

RESULT 11

US-08-630-172-21
Sequence 21, Application US/08630172
Patent No. 6060054
GENERAL INFORMATION:
APPLICANT: Staerz, Uwe
TITLE OF INVENTION: NOVEL PRODUCT AND PROCESS FOR T
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sheridan Ross & McIntosh
STREET: 1700 Lincoln Street, 35th Floor
CITY: Denver
STATE: Colorado
COUNTRY: U.S.
ZIP: 80203
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/630.172
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Connell, Gary J.
REGISTRATION NUMBER: 32,020
REFERENCE/DOCKET NUMBER: 2879-36
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 863-9700

TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 378 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-630-172-21

Query Match 53.7%; Score 758; DB 3; Length 378;
Best Local Similarity 99.3%; Pred. No. 2e-51;
Matches 144; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 114 PEKKELRKVAHLTGKSNRSMPLMEDTYGIVLLSGVKYKKGGLVINEGLGYEYSKY 173
DB 1 PEKKELRKVAHLTGKSNRSMPLMEDTYGIVLLSGVKYKKGGLVINEGLGYEYSKY 60
QY 174 FRGQSCNNPLPSHKRYMRNSKYPQDLVMEGKMYSCTTGOMARSSYLGAVENTLSADH 233
DB 61 FRGQSCNNPLPSHKRYMRNSKYPQDLVMEGKMYSCTTGOMARSSYLGAVENTLSADH 120
QY 234 LYVNSELSLVNFEESQTFEGLYKL 258
DB 121 LYVNSELSLVNFEESQTFEGLYKL 145

RESULT 12

PCT-US93-02475-13

Sequence 13, Application PC/TUS9302475

GENERAL INFORMATION:

APPLICANT: Waisleski, Bernadine J.

TITLE OF INVENTION: Tumor Necrosis Factor with Modified

NUMBER OF SEQUENCES: 13

CORRESPONDENCE ADDRESS:

ADDRESSEE: Donald G. Lewis

STREET: 8328 Regents Road #1E

CITY: San Diego

STATE: California

COUNTRY: USA

ZIP: 92122

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 1.44 M storage

COMPUTER: VE System 386

OPERATING SYSTEM: MS-DOS 5

SOFTWARE: Word Perfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US93/02475

FILING DATE: 19930412

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/852,625

FILING DATE: 12 March 1992

ATTORNEY/AGENT INFORMATION:

NAME: Donald G. Lewis

REGISTRATION NUMBER: 28636

REFERENCE/DOCKET NUMBER: BJW-2

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 554-2421

TELEFAX: (619) 554-6312

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 171 amino acids

TYPE: AMINO ACIDS

TOPOLOGY: linear

MOLECULE TYPE: protein

FEATURE:

NAME/KEY: Lymphotoxin (murine)

OTHER INFORMATION: Two blank residues designated by

OTHER INFORMATION: "xaa" are inserted after residue No. 4 of murine

OTHER INFORMATION: Lymphotoxin and the sequence numbering is augmented

OTHER INFORMATION: by 2 starting with residue No. 5 in order to

OTHER INFORMATION: maximize the sequence homology with human
OTHER INFORMATION: Lymphotoxin.

PUBLICATION INFORMATION:

AUTHORS: Li, C-B., Gray, R.W., Lin, P-F., McGrath,

TITLE: Cloning and Expression of Murine

JOURNAL: J. Immunology

VOLUME: 138

PAGES: 4496-4501

DATE: 1987

RELEVANT RESIDUES IN SEQ ID NO: 13: 1-171 (includes

RELEVANT RESIDUES IN SEQ ID NO: two blanks)

PCT-US93-02475-13

Query Match 14.7%; Score 207; DB 5; Length 171;
Best Local Similarity 31.4%; Pred. No. 2.7e-09;
Matches 53; Conservative 28; Mismatches 78; Indels 10; Gaps 2;

QY 100 GMFQLEHLOKEPSPPEPK-----ELRKVAHLTGKSNRSMPLMEDTYGIVLLSGVKK 155
DB 3 GYAXRFSAAHTAPLQKHLTHGLKRAHLVGYPSKQNSLMRASDRFLRHGSLSN 62
QY 156 GGLVINEGLGYEYSKYFERGQSCN-----NPLSHKRYMRNSKYPQDLVMEGKMST 209
DB 63 NSLIPTSGLYFYVSQVVFSGESCSRAIPTPIYLAHEVOLFFSSQYFHVPLLSACKSVY 122
QY 210 CTGOMARSSYLGAVENTLSADHLYVNSELSLVNFEESQTFEGLYKL 258
DB 123 PGLQFWRSMYOGAVFLSKGDLSTHTDGLSHLHSPSVFEGAFAL 171

RESULT 13

US-08-855-825-14

Sequence 14, Application US/08855825

Patent No. 6183951

GENERAL INFORMATION:

APPLICANT: Plevy, Scott E.

Targan, Stephan R.

Taylor, Kent

Barry, Mary J.

TITLE OF INVENTION: Methods of Diagnosing Clinical Subtypes

Anti-Tn1 Cytokine Therapy

NUMBER OF SEQUENCES: 20

CORRESPONDENCE ADDRESS:

ADDRESSEE: Campbell & Flores LLP

STREET: 4370 La Jolla Village Drive, Suite 700

CITY: San Diego

STATE: California

COUNTRY: United States

ZIP: 92122

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/855,825

FILING DATE: 12-May-1997

CLASSIFICATION: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE/DOCKET NUMBER: P-PM 2591

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-9001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 14:

SEQUENCE CHARACTERISTICS:

LENGTH: 203 amino acids

TYPE: amino acid

TOPOLOGY: linear

Qy 122 KVAHLTGKSNRSRSMPLMEDTYGIVLLSGVKKYKGGVJINETGLYFVYSKVYFRGQ---- 177
 Db 63 PAHNLIGDPSKQNSLWLRANTDRAFLQDGFSLNNSLVLVPTSGIFYVSQVYFSGKAYSP 122
 Qy 178 --SCNNLPLSHKYMKNSKYPQDVLVMEGKMSYCTTGOMMARSSTLGAVFNLTADHLY 235
 Db 123 KATSSPLYLAHEVQLFSSQYPEHVPLLLSSQKMYVPGLOEFWLHSMYHGAFFOLTQGDOLS 182
 Qy 236 VNVSELSLVNFEESSQTFEGLYKL 258
 Db 183 THTDGIPHLVLSPTVYFEGAFAL 205

Search completed: April 24, 2001, 15:31:52
 Job time: 28 sec